

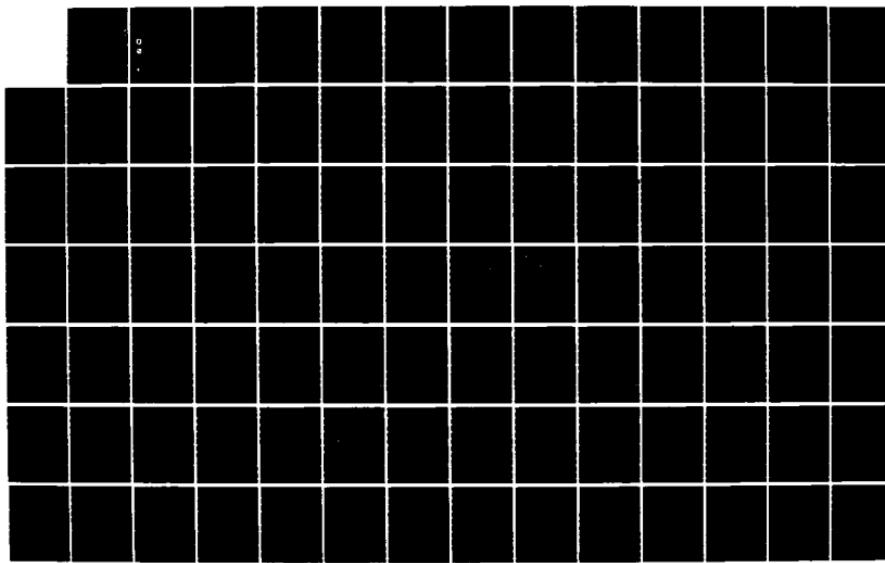
RD-R173 765 DAILY MAGNETograms FOR 1983 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(C) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 21 MAR 85 1/3

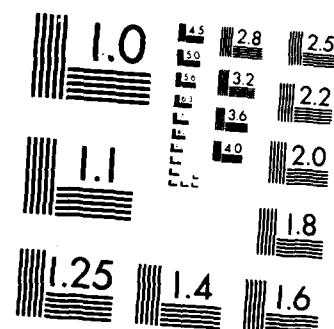
UNCLASSIFIED

AFGL-TR-85-0032

F/G 8/14

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

AD-A173 765

AFGL-TR-85-0032
SPECIAL REPORTS, NO. 248

Daily Magnetograms for 1983
From the AFGL Network

DAVID J. KNECHT



21 March 1985



Approved for public release; distribution unlimited.



SPACE PHYSICS DIVISION
AIR FORCE GEOPHYSICS LABORATORY
HANSCOM AFB, MA 01731

DTIC
SELECTED
OCT 30 1986
S E D

PROJECT 7601

6 10 20 219

AMERICAN FILE COPY

"This technical report has been reviewed and is approved for publication"

FOR THE COMMANDER


WILLIAM J. BURKE, Chief

Space Plasmas and Fields Branch


RITA C. SAGALYN, Director

Space Physics Division

This document has been reviewed by the ESD Public Affairs Office (PA) and is releasable to the National Technical Information Service (NTIS).

Qualified requestors may obtain additional copies from the Defense Technical Information Center. All others should apply to the National Technical Information Service.

If your address has changed, or if you wish to be removed from the mailing list, or if the addressee is no longer employed by your organization, please notify AFGL/DAA, Hanscom AFB, MA 01731. This will assist us in maintaining a current mailing list.

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE

AD-A173 765

REPORT DOCUMENTATION PAGE

1a REPORT SECURITY CLASSIFICATION Unclassified		1d RESTRICTIVE MARKINGS												
2a SECURITY CLASSIFICATION AUTHORITY		3 DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited.												
2b DECLASSIFICATION/DOWNGRADING SCHEDULE														
4 PERFORMING ORGANIZATION REPORT NUMBER(S) SR, No. 248 AFGL-TR-85-0032		5 MONITORING ORGANIZATION REPORT NUMBER(S)												
6a NAME OF PERFORMING ORGANIZATION Air Force Geophysics Laboratory	6b OFFICE SYMBOL <i>(If applicable)</i> PHG	7a NAME OF MONITORING ORGANIZATION												
6c ADDRESS (City, State and ZIP Code) Hanscom AFB Massachusetts 01731		7b ADDRESS (City, State and ZIP Code)												
8a NAME OF FUNDING/SPONSORING ORGANIZATION	8b. OFFICE SYMBOL <i>(If applicable)</i>	9 PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER												
8c ADDRESS (City, State and ZIP Code)		10 SOURCE OF FUNDING NOS												
11 TITLE <i>(Include Security Classification)</i> Daily Magnetograms for 1983 From the AFGL Network		PROGRAM ELEMENT NO 62101F	PROJECT NO 7601	TASK NO 18	WORK UNIT NO 01									
12 PERSONAL AUTHOR(S) David J. Knecht														
13a TYPE OF REPORT Inhouse	13b TIME COVERED FROM _____ TO _____	14 DATE OF REPORT (Yr, Mo, Day) 1985 March 21		15 PAGE COUNT 422										
16 SUPPLEMENTARY NOTATION														
17 COSATI CODES <table border="1"><tr><th>FIELD</th><th>GROUP</th><th>SUB GR</th></tr><tr><td>8</td><td>14</td><td>2</td></tr><tr><td>3</td><td>2</td><td>11</td></tr></table>	FIELD	GROUP	SUB GR	8	14	2	3	2	11	18 SUBJECT TERMS <i>(Continue on reverse if necessary and identify by block number)</i> Magnetograms Magnetic Storms Variations Magnetic field Substorms Geomagnetism Network Ground measurements				
FIELD	GROUP	SUB GR												
8	14	2												
3	2	11												
19 ABSTRACT <i>(Continue on reverse if necessary and identify by block number)</i> A stacked plot of 24-hour magnetograms from the AFGL Magnetometer Network is presented for each UT day of the year 1983. Each plot, on a single page, contains all 21 traces from the fluxgate magnetometers of the network (three components at seven stations). The data plotted are 2-min averages of the 1-min edited data set that has been provided to the World Data Center. To aid in comparisons between days, the magnetograms are plotted with a fixed amplitude scale that preserves a resolution of one or two nanoteslas. For the ten percent of all days that are more active, the plots have been repeated at a reduced amplitude. These magnetograms serve to assess the general character of magnetic activity, identify events for scientific study, and indicate the coverage and quality of the data available from the World Data Center.														
20 DISTRIBUTION AVAILABILITY OF ABSTRACT UNCLASSIFIED UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input checked="" type="checkbox"/> DTIC USERS <input type="checkbox"/>			21 ABSTRACT SECURITY CLASSIFICATION Unclassified											
22a NAME OF RESPONSIBLE INDIVIDUAL David J. Knecht			22b TELEPHONE NUMBER <i>(Include Area Code)</i> (617) 861-2422	22c OFFICE SYMBOL PHG										

DD FORM 1473, 83 APR

EDITION OF 1 JAN 73 IS OBSOLETE

Unclassified
SECURITY CLASSIFICATION OF THIS PAGE

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By _____	
Distribution/ _____	
Availability Codes	
Avail: <input type="checkbox"/> or	<input type="checkbox"/>
Dist: <input type="checkbox"/> Special	<input type="checkbox"/>
A-1	



Preface

This volume of magnetograms from the AFGL Magnetometer Network is the last in a set of six yearly volumes covering the years 1978 through 1983. Descriptive material needed to explain the magnetograms is repeated so each volume can be used independently.

These volumes are dedicated to the memory of Robert W. Crowe, who as a high-school student, carried out much of the computer work that produced the edited data shown in these plots and who lost his life in October 1982 while the work was under way.

Many other persons have also contributed greatly to this effort. The project, which required reading more than 1200 input data tapes, writing more than 4500 edited-data tapes, and making and assembling more than 6500 separate plots for these volumes, was made possible by the dedicated efforts of a group of college and high-school students. Armand Paboojian supervised and personally undertook much of the production of the edited data base. Ric Laperriere, Stephen Morris, Catherine Whittaker, Glenn Ellis, and Ara Topjian also contributed many hours to this work. Fr. John F. Devane, S.J., directed the contractual effort of Boston College under which most of the students worked. Ric Laperriere carried out a large fraction of the production runs that produced the final plots. These generous contributions are gratefully acknowledged.

Contents

1. INTRODUCTION	1
2. DESCRIPTION OF THE NETWORK	2
3. EDITING OF THE DATA	3
4. DESCRIPTION OF THE PLOTS	4
5. METHOD OF PRODUCING THE PLOTS	5
6. CAUTIONS ABOUT USE OF THE PLOTS	6
7. BASIC PLOTS AT STANDARD AMPLITUDE	7
8. SUPPLEMENTARY PLOTS AT REDUCED AMPLITUDE	373

Illustrations

1. Map of the AFGL Magnetometer Network	2
365 Daily Magnetograms at Standard Amplitude	8 through 372
43 Daily Magnetograms at Reduced Amplitude	374 through 416

Tables

1. Locations of the Data-Collection Stations	3
--	---

Da., Magnetograms for 1983 From the AFGL Network

I. INTRODUCTION

From mid-1976 through 1983, the AFGL Magnetometer Network made continuous measurements of the surface magnetic field at seven stations spanning the contiguous United States. An edited data base has been produced for the period 1978-1983; it consists of three-component measurements of the field at the seven network stations by fluxgate magnetometers sample once per second. A subset of these data, consisting of 1-min average values in the standard IMS format, is available to the scientific community through the World Data Center.

This report, one of a series of yearly volumes, presents the 1-min subset of data for the year 1983 in the form of stacked daily magnetograms, one day per page. The anticipated uses of these plots include: (1) discovering the overall pattern of magnetic activity across the United States for any day, (2) identifying events for scientific study, and (3) indicating the coverage and quality of the data available from the World Data Center.

For the basic set of 365 daily plots, the question of amplitude scale was resolved in favor of a constant value for all plots to facilitate comparison when scanning over many pages. However, for about ten percent of all days this choice causes traces to be offscale or confused, so for these days the plot is repeated on a less sensitive scale in a subsequent section of supplemental plots.

(Received for publication 19 March 1985)

2. DESCRIPTION OF THE NETWORK

The AFGL Magnetometer Network consisted of seven remote instrumented stations at the locations shown in Figure 1 and listed in Table 1. The five northern stations form a line at approximately 55 degrees cgm latitude, while the two southern stations are both at about 40 degrees cgm latitude.

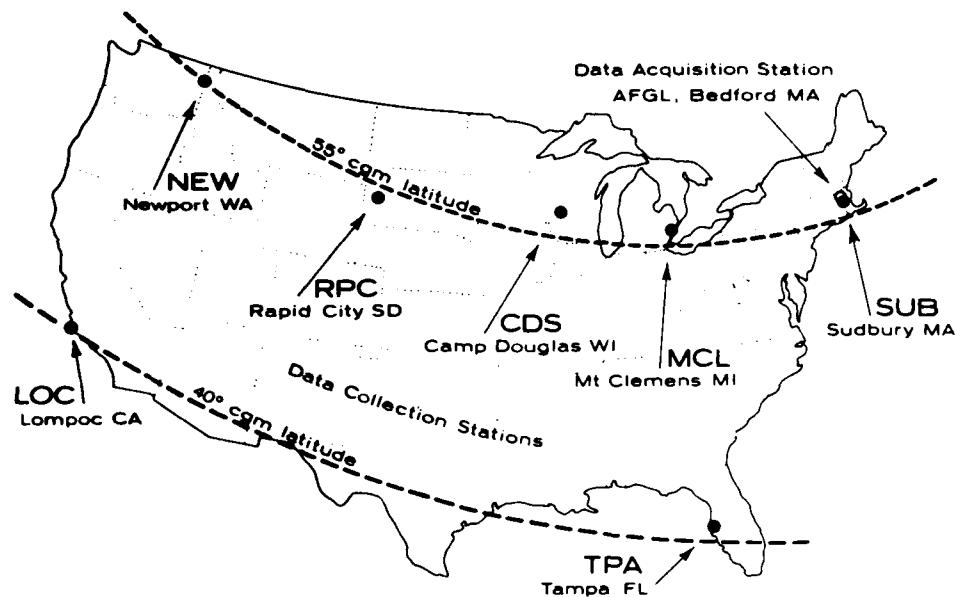


Figure 1. Map of the AFGL Magnetometer Network

The instrumentation at all sites was essentially identical. The instrument which made the measurements presented here is a three-component fluxgate magnetometer built by the University of California at Los Angeles. (Data from a second instrument, an induction-coil magnetometer, is not discussed.) The fluxgate magnetometer has a basic analog (fine-scale) range of -64 to +64 nanoteslas; it is kept onscale by applying to the sensor a precise (coarse-scale) nulling field of an integral multiple of 64 nT to cover the full range of approximately -65,000 to +65,000 nT. The fine-scale output is digitized by an 11-bit analog-to-digital converter, with the least significant bit representing 1/16 nT. The instrument was sampled once per second.

Data from all stations were returned to a data-acquisition station at AFGL via a single dedicated voice-grade circuit made up largely of ordinary phone lines and

having a branch to each of the stations. A polling signal sent from the data-acquisition station synchronized all stations to within several milliseconds accuracy by incorporating compensation for propagation delays. Data collected at each station during any 10-sec sampling interval were transmitted in a block at some point during the next interval. A forward-error-correcting scheme was used to eliminate transmission errors. Data were received, compressed, formatted, and archived on magnetic tape by a dedicated minicomputer. Subsequently, several series of edited-data tapes were produced from the archive tapes, using the same minicomputer, as described in the following section.

Table 1. Locations of the Data-Collection Stations

Station (post office)	Symbol and Name	Corrected Geomagnetic Coordinates		Geographic Coordinates		Government Installation
		N Lat	E Long	N Lat	E Long	
NEW	Newport WA	55.2	299.6	48.3	117.1	USGS Newport Observatory
RPC	Rapid City SD	54.1	317.3	44.2	103.1	Ellsworth Air Force Base
CDS	Camp Douglas WI	56.3	334.2	44.0	90.3	Volk Field (Natl. Guard Base)
MCL	Mount Clemens MI	55.8	344.8	42.6	82.9	Selfridge Air Natl. Guard Base
SUB	Sudbury MA	55.8	1.9	42.2	71.3	Army Natick Laboratory Annex
LOC	Lompoc CA	40.2	300.6	34.7	120.6	Vandenberg Air Force Base
TPA	Tampa FL	40.7	344.9	27.8	82.5	MacDill Air Force Base

3. EDITING OF THE DATA

The content of the archive data tapes is the series of successive data transmissions, recorded with minimal processing at the time of reception. These raw tapes are somewhat inconvenient for general use, since they reflect network malfunctions of many kinds, include other scientific and housekeeping data, and use a complex format for economy. An edited version, containing only the fluxgate measurements, was desired, and an automated procedure for processing these tapes was developed.

The editing process was designed to correct for a number of errors likely (and often known) to occur in the data because of various equipment malfunctions. The basis for detecting and assessing the errors was a set of redundancy and consistency checks built into or inherent in the data. The faults corrected (in most cases by

discarding the faulty data) included: (1) magnetometer outputs differing from a nominal quiet-time value by more than 2048 nT, (2) transmissions not confirmed to have come from the correct station, and (3) incorrect time values associated with transmissions. At the same time, the data were organized by time interval, station, and component, with missing data filled with blanks.

It may be noted that the faults addressed in editing are almost exclusively those of the collection and transmission system; the only criterion placed on the magnetometer output was that it be reasonably close to an expected value. One reason for this is that rigorous criteria for assessing the correctness of the magnetometer data are so lacking that an automated procedure is not possible. But another reason is that, for many purposes, the usefulness of the data is only slightly (or not at all) diminished by the most common malfunctions. Therefore, most failures experienced with the magnetometers are still reflected in the edited data. Since the stations were unattended, a number of days often elapsed before a malfunction was corrected, and caution is necessary in using these data. Some specific guidance is provided in Section 6 below.

4. DESCRIPTION OF THE PLOTS

The basic set of plots is presented in Section 7. It includes, for each day in the year, daily magnetograms for all three components of the seven network stations, a total of 21 traces. These are grouped into three panels by component, in the order X, Y, Z from top to bottom of the page, where X is magnetic north, Y is magnetic east, and Z is vertically downward. This alignment was only approximate, and during the early years X and Y were often rotated slightly about Z to keep the Y component slightly positive. To facilitate comparisons between adjacent stations, the traces within each panel are further ordered by plotting the 55-degree stations first, west to east, followed by the two 40-degree stations, west to east.

For the basic set of plots a common fixed amplitude scale was selected for ease in comparing between days. The value 40 nT per major division was chosen because it kept about 90 percent of the plots onscale. A major division is the distance between the dotted baselines for adjacent traces. One minor division represents 10 nT, and a resolution of about one or two nT is preserved in the traces. For active days on which the traces go offscale or become confused by overlap, a supplementary set of plots, using a scale of 160 or 400 nT per major division is presented in Section 7. A small solid triangle following the date on the basic plot in Section 7 indicates that a supplementary plot has been provided.

Each trace is labeled at the left with a three-letter station code. Its absolute calibration is provided by the corresponding value (in nT) of the horizontal dotted baseline. This value, appearing just below the station code, is the 24-hour mean of

the data plotted, rounded to the nearest nanotesla. The station code and baseline value are omitted whenever all data points in a trace are blanks or, very rarely, when a badly malfunctioning trace has been eliminated to avoid obscuring good traces. The presence of the label usually (but not reliably) indicates that the trace is not completely blank.

The time scale covers the 24-hour UT day, with 1-hr and 10-min subdivisions. The edited data base consists of one value per minute (good datum or blank) for each of the 21 traces, but since this sampling rate exceeds the resolution possible on the page, 2-min averages were plotted instead. This results in 720 points per day, and since the full-scale length of the time axis is roughly 144 mm, the point-to-point spacing is about 0.2 mm (0.008 in.).

The date is printed at the lower left corner of each plot, first in the form day-of-month, month, year. It is repeated, in parentheses, in the form year (followed by a period) and day-of-year. As noted above, a solid triangle after the final parenthesis indicates the presence of a supplementary plot in Section 8.

5. METHOD OF PRODUCING THE PLOTS

The plots were generated by the network minicomputer (Varian model V72, vintage 1972) with 7-track tape units to read input data. The automated plot program was written in FORTRAN and incorporated Varian Dataplot software. The output device was a Tektronix type 4014 terminal equipped with a type 4631 hardcopy unit. With this equipment the plot is first drawn by an electron beam on the screen of the CRT (a storage device) and then copied to the hardcopy unit by a second beam which scans the screen; a third beam in the hardcopy unit writes the plot onto a dry-silver heat-developed paper. The three panels for each day of data were produced separately and then trimmed and taped together by hand, using overlapping registration marks for alignment. Since the image on the dry-silver paper deteriorates rapidly, the assembled plots were then copied, with a reduction to 74 percent of original size, on an IBM series III model 20 photocopier. These copies were furnished for the printer to use without further reduction.

The linearity and accuracy afforded by this method is sufficient for most purposes but does not equal that achievable by producing all three panels at once on a good electrostatic plotter and photoreducing the plots in the printshop. Some care may therefore be necessary in attempting precise measurements from these plots.

6. CAUTIONS ABOUT USE OF THE PLOTS

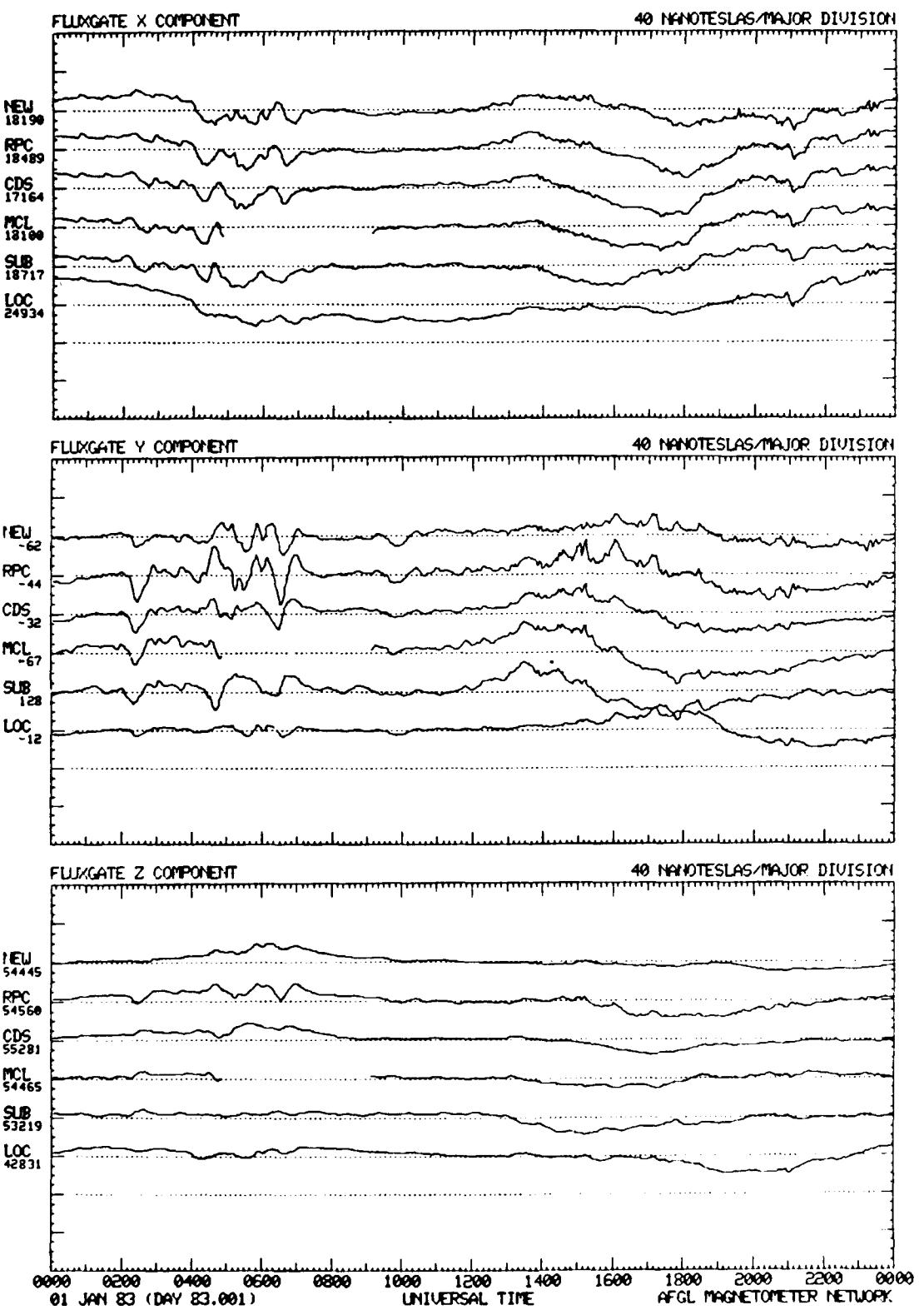
The following brief comment on some common faults in the data may be useful. Examples are given by a reference in parentheses to a plot which exhibits the particular fault described.

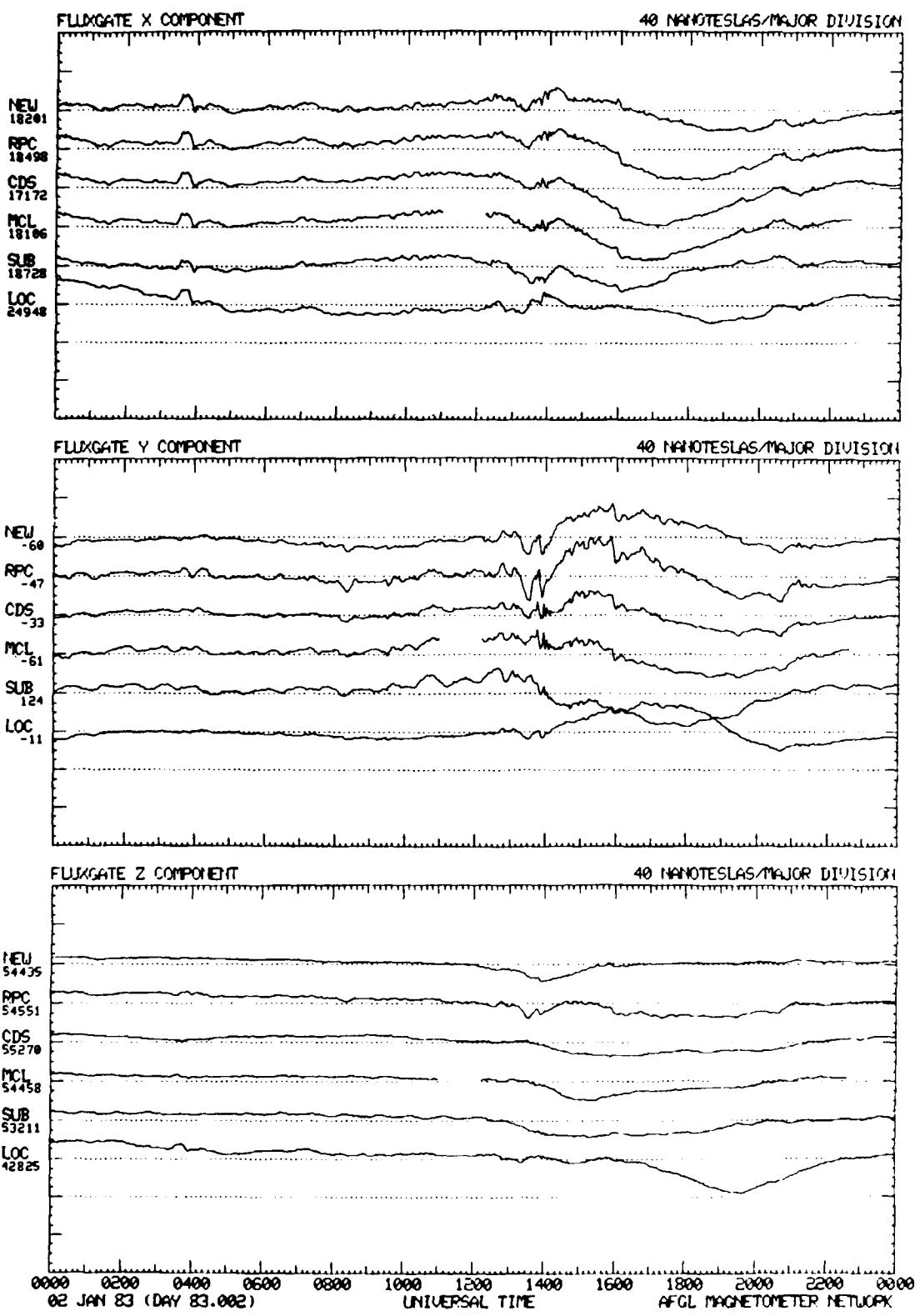
Two problems were caused by the plotting equipment: (1) some trace labels are occasionally shifted into the middle of a panel, to the right of their proper location (X traces, 19 May). This problem was ignored because it was not easy to cure and caused no serious harm. (2) The least significant digit of the baseline value for a trace is occasionally omitted (RPC-Z trace, 04 January). Since baseline values are all right-justified, the absence of the final digit can be seen, but the value will be uncertain by 5 nT. Again, the harm caused was not enough to justify the cost of solving it.

As noted earlier, data from malfunctioning magnetometers were not excluded unless they differed greatly from expected values. Usually, the integrity of the data can be adequately assessed by comparing any trace with those of adjacent stations and by observing its behavior over an extended interval. Five common malfunctions are these: (1) an instrument which does not change range properly may exhibit sudden positive or negative jumps of 64 nT, the amount of one coarse-scale step (CDS-Y trace, 11 February). (2) Some failures, such as a data-system bit that fails to turn on or off, cause smaller jumps (note the jumps of about 8 nT in the NEW-Z trace, 04-05 January and 27 March). (3) Some failures cause a trace to exhibit noise, which may be large (no examples in 1983) or small (NEW-X trace, 04-06 December). (4) Failure of the fine-scale output causes a trace to show no activity except an occasional range-change jump of 64 nT (MCL traces, 19 August through end of the year). (5) Failure of the temperature-compensating circuitry makes the output very dependent on electronics temperature; the trace will then reflect the regular cycles of the thermostatically controlled trailer temperature (CTPA-Z trace, 04 June and continuing). (6) Other severe malfunctions can cause wild drifting (MCL-Y and MCL-Z traces, 09 February), large noise spikes (LOC-Y trace, 03 January), or bursts (LOC traces, 15 January and 12 June). All these faults can normally be detected in the context of the stacked plots.

7. BASIC PLOTS AT STANDARD AMPLITUDE

This section presents one stacked-magnetogram plot for each day of 1983, using the standard amplitude scale of 40 nT per major division.





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18198
RPC
18489
CDS
17160
MCL
18698
SUB
18721
LOC
24945

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-52
RPC
-47
CDS
-33
MCL
-53
SUB
124
LOC
-10

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

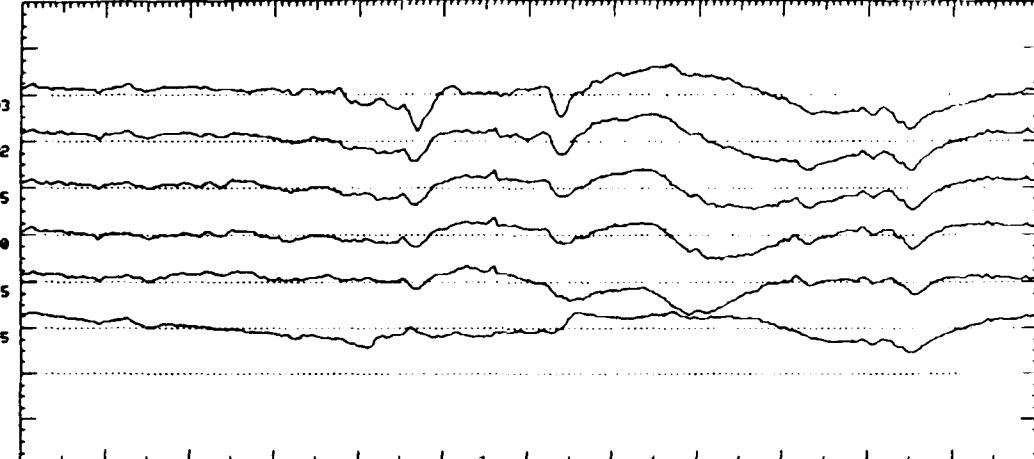
NEU
54429
RPC
54542
CDS
55265
MCL
54451
SUB
53289
LOC
42829

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 JAN 83 (DAY 83.003) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

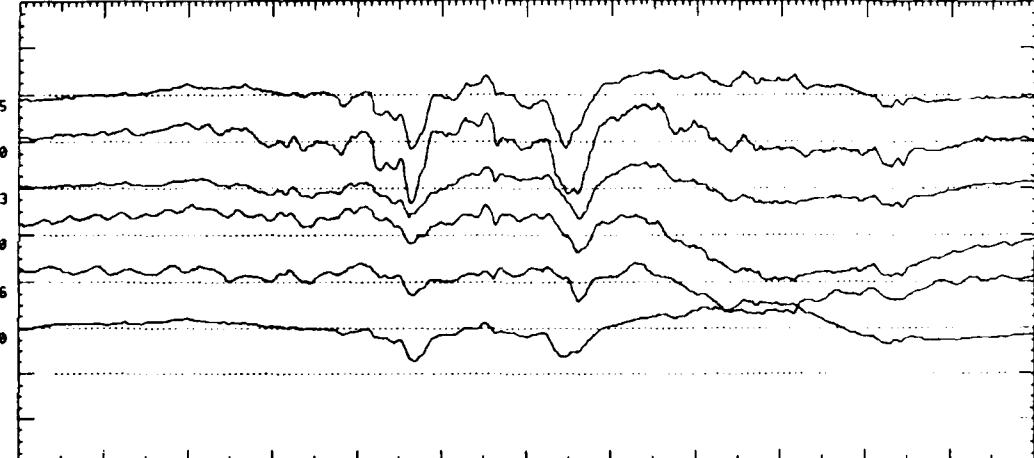
NEW
18193
RPC
18492
CDS
17165
MCL
18100
SUB
18715
LOC
24955



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

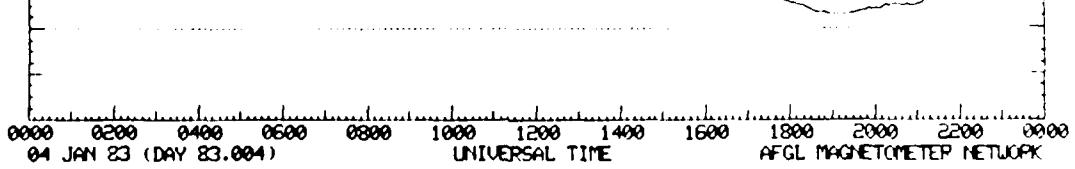
NEW
-55
RPC
-50
CDS
-33
MCL
-68
SUB
116
LOC
-10



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54434
RPC
5455
CDS
55274
MCL
54457
SUB
53217
LOC
42237



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 JAN 83 (DAY 83.004)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18196
RPC
18499
CDS
17162
MCL
18104
SUB
18721
LOC
24951

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-49
RPC
-46
CDS
-27
MCL
-60
SUB
124
LOC
-11

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

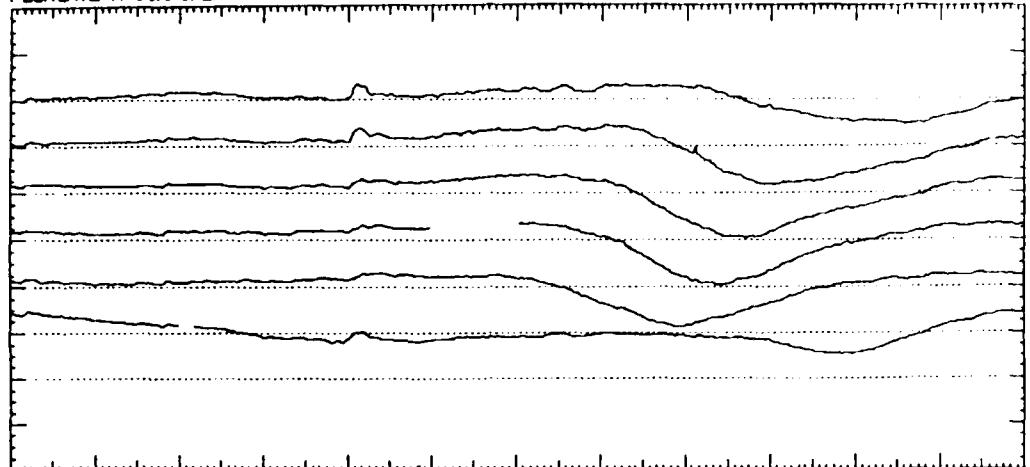
NEW
54442
RPC
54553
CDS
55273
MCL
54460
SUB
53213
LOC
42837

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 JAN 83 (DAY 23.005) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

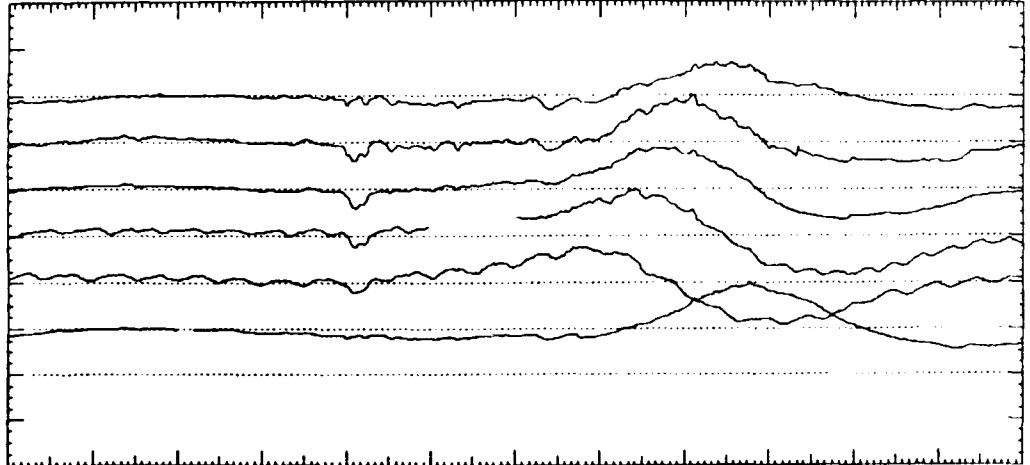
NEU
18199
RPC
18582
CDS
17167
MCL
18101
SUB
18725
LOC
24951



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-51
RPC
-47
CDS
-33
MCL
-61
SUB
126
LOC
-8



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54441
RPC
54557
CDS
55278
MCL
54462
SUB
53209
LOC
42836

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
06 JAN 83 (DAY 83.006) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12201
RPC
18501
CDS
17169
MCL
18195
SUB
18724
LOC
24955

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-48
RPC
-44
CDS
-30
MCL
-59
SUB
129
LOC
-6

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54441
PPC
54553
CDS
55271
MCL
54462
SUR
5320
LOC
42835

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 JAN 83 (DAY 83.007) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18205
RPC
18507
CDS
17171
MCL
18196
SUB
18728
LOC
24968

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

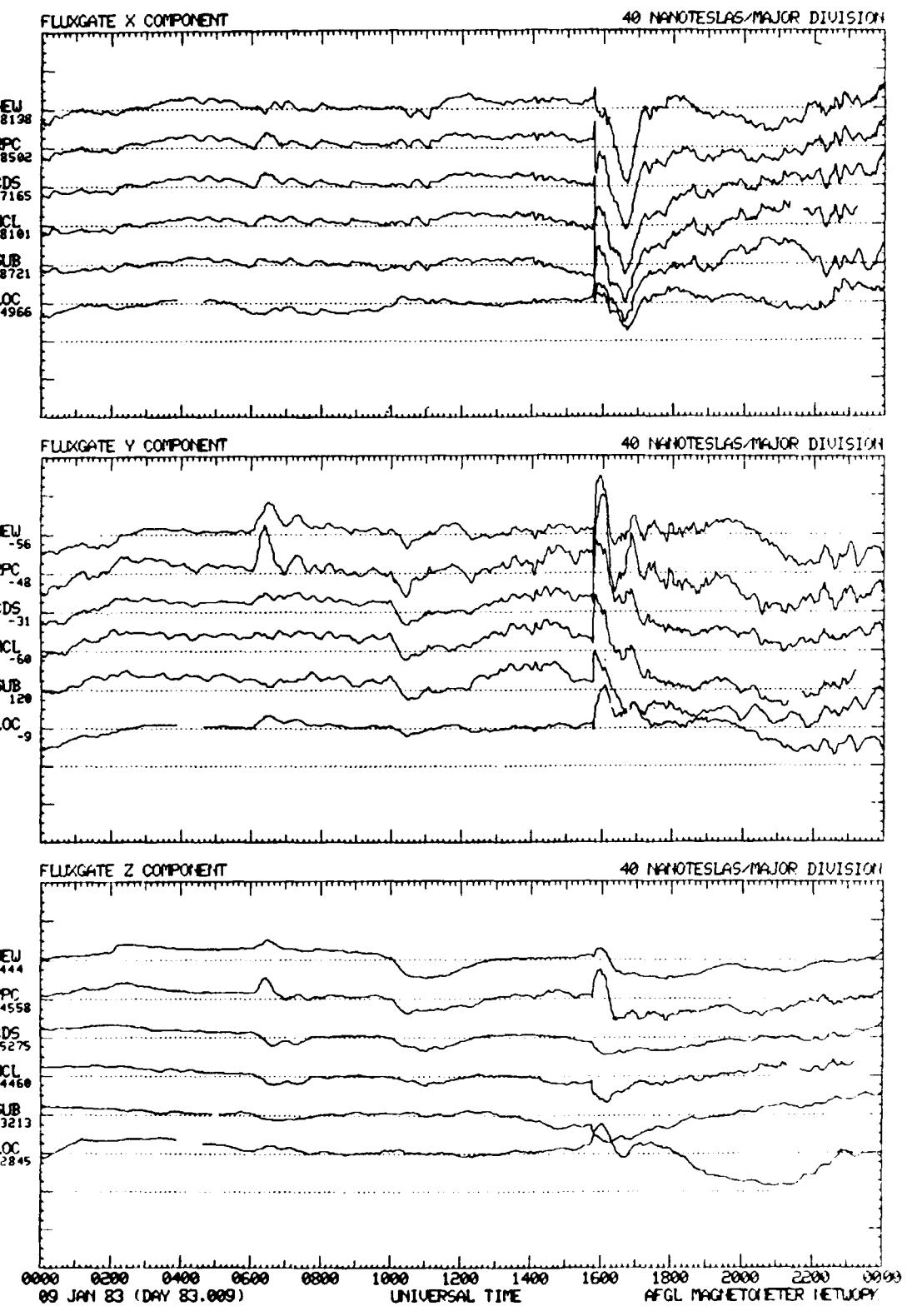
NEU
-51
RPC
-46
CDS
-31
MCL
-52
SUB
128
LOC
-6

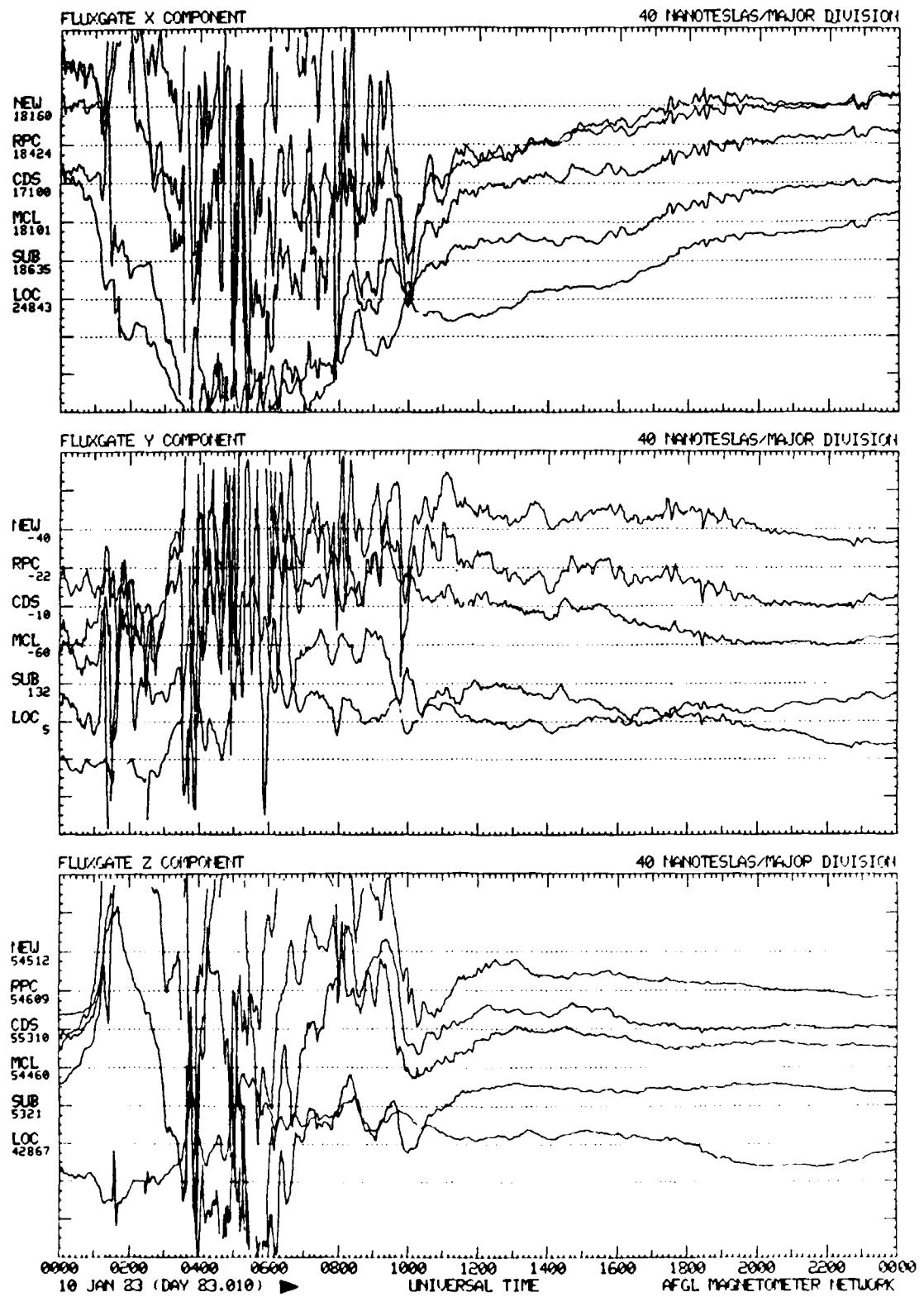
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54441
RPC
54553
CDS
55271
MCL
54459
SUB
53207
LOC
42842

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
08 JAN 83 (DAY 83.008) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18123
RPC
18481
CDS
17156
MCL
18181
SUB
18725
LOC
24934

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

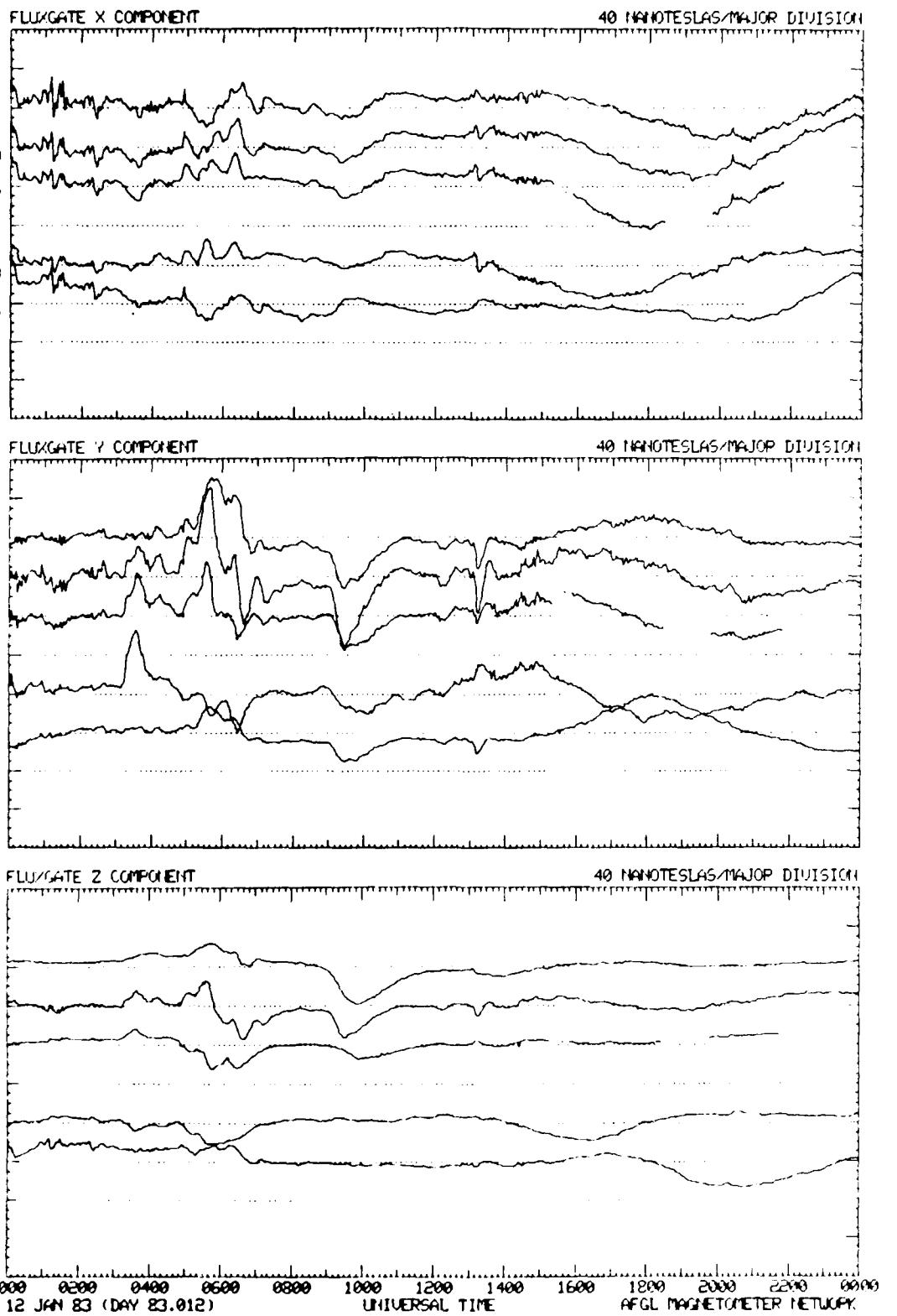
NEW
-51
RPC
-48
CDS
-36
MCL
-60
SUB
133
LOC
-11

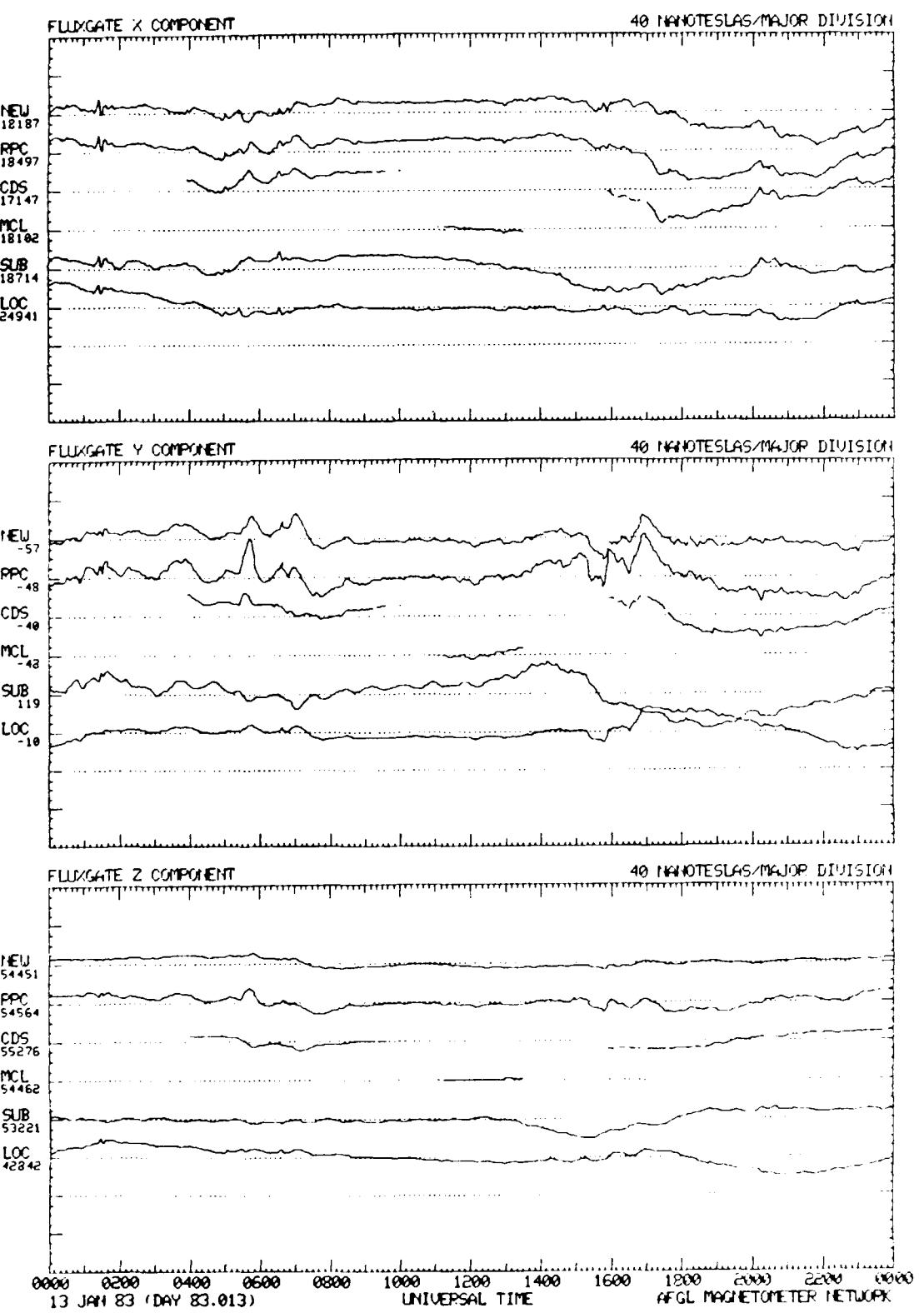
FLUXGATE Z COMPONENT

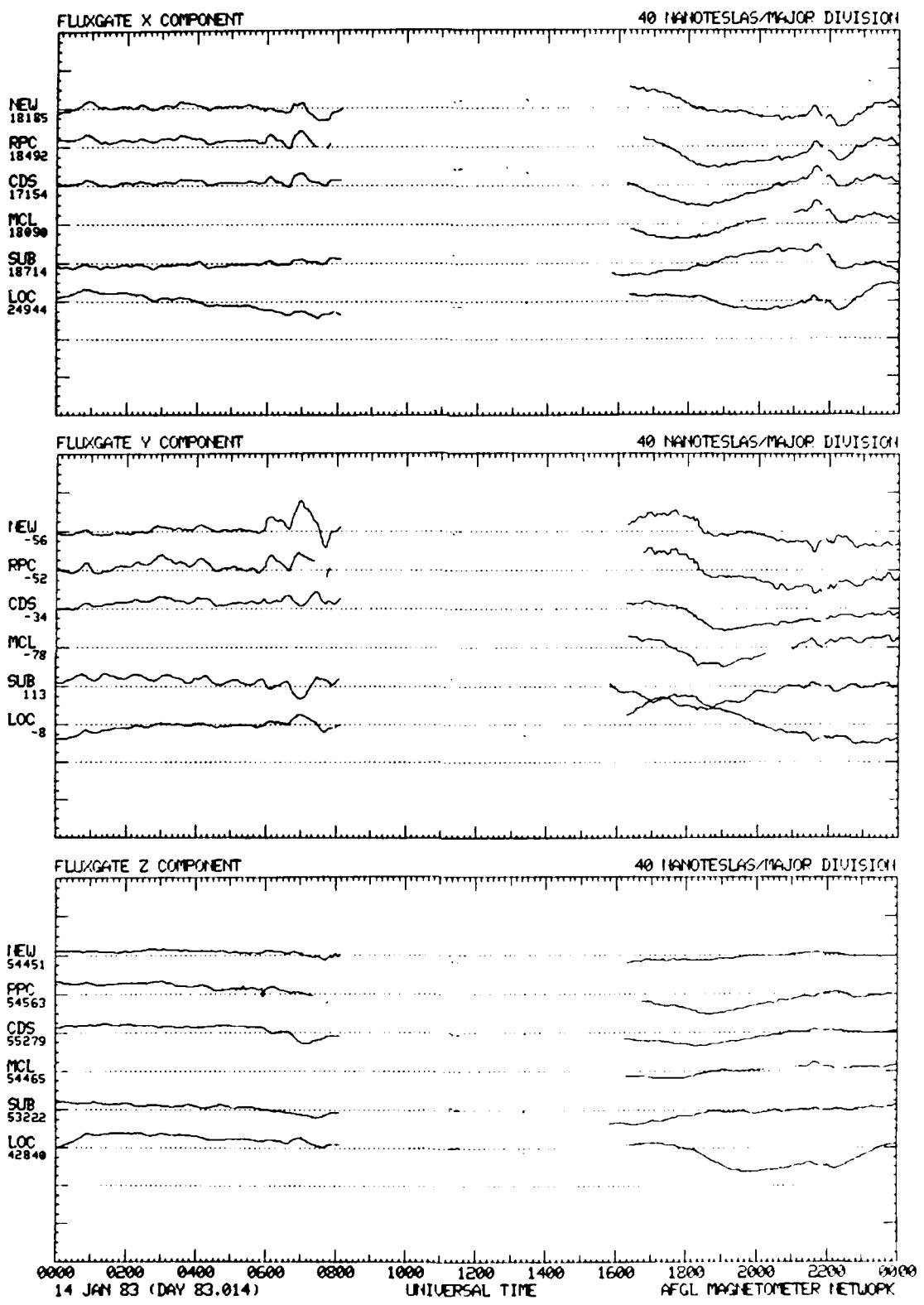
40 NANOTESLAS/MAJOR DIVISION

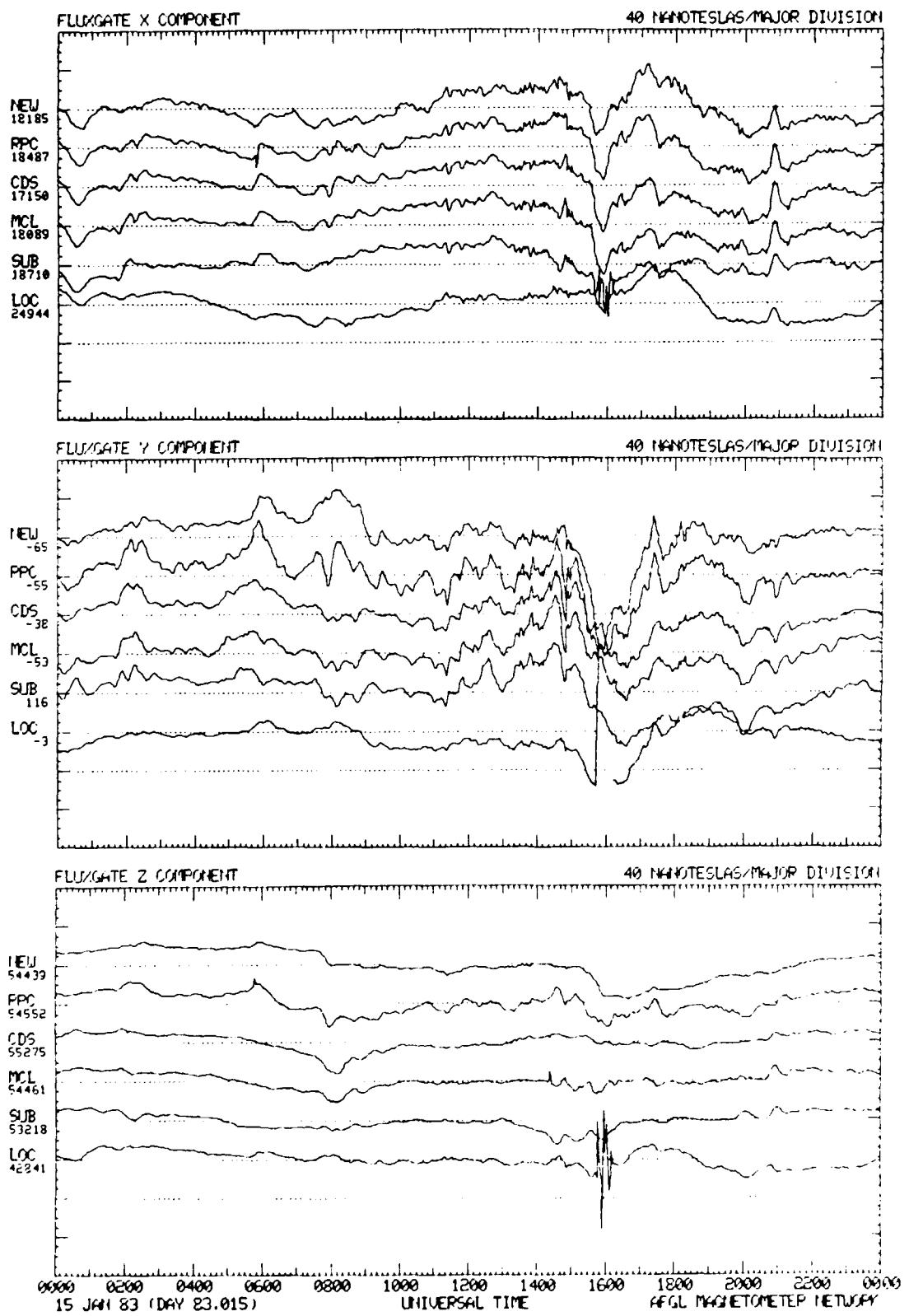
NEW
54460
PPC
54564
CDS
55282
MCL
54468
SUB
53212
LOC
42853

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 JAN 83 (DAY 83.011) UNIVERAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12177
RPC
18484
CDS
17141
MCL
18681
SUB
18710
LOC
24942

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

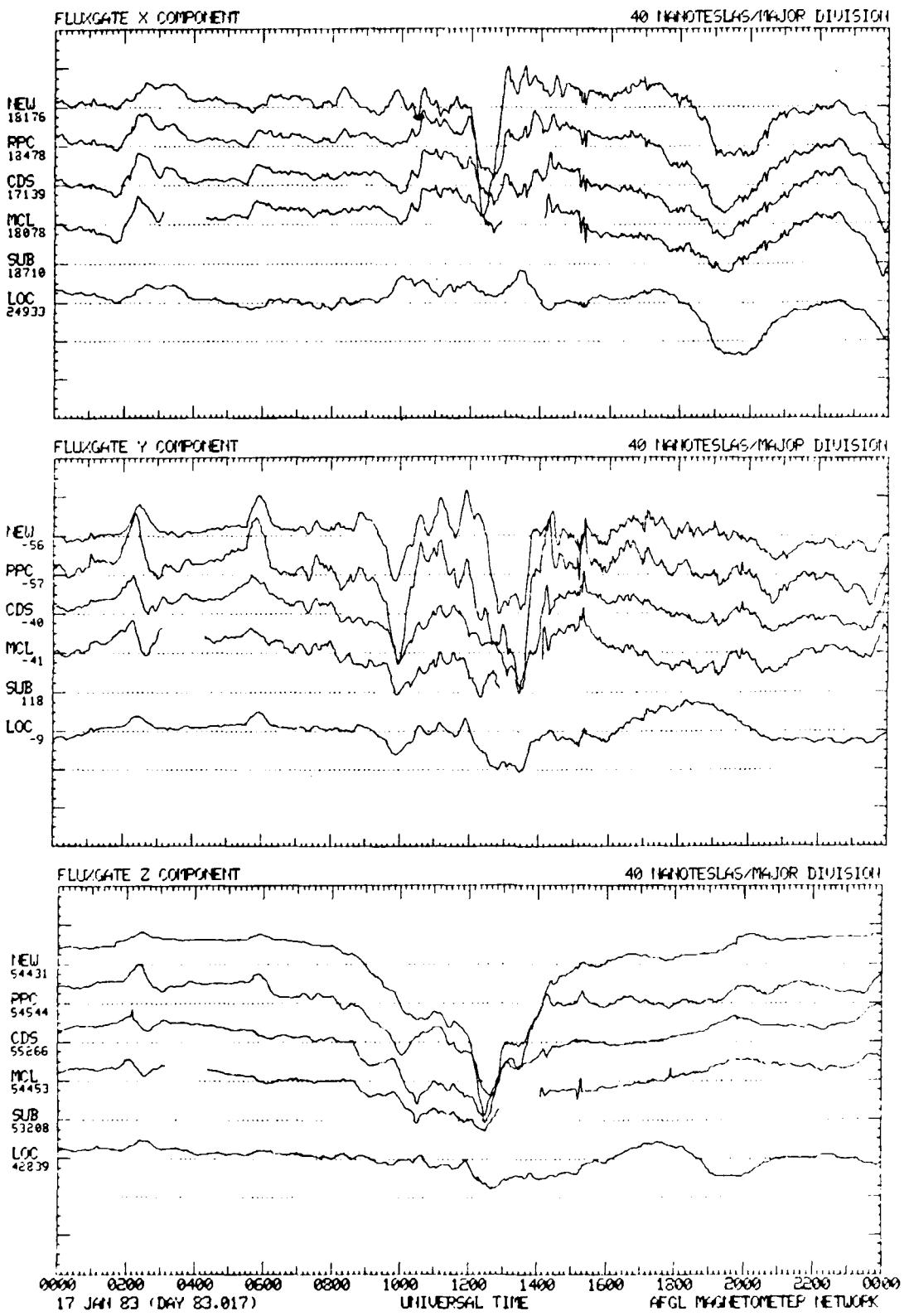
NEU
-48
RPC
-45
CDS
-34
MCL
-43
SUB
118
LOC
-3

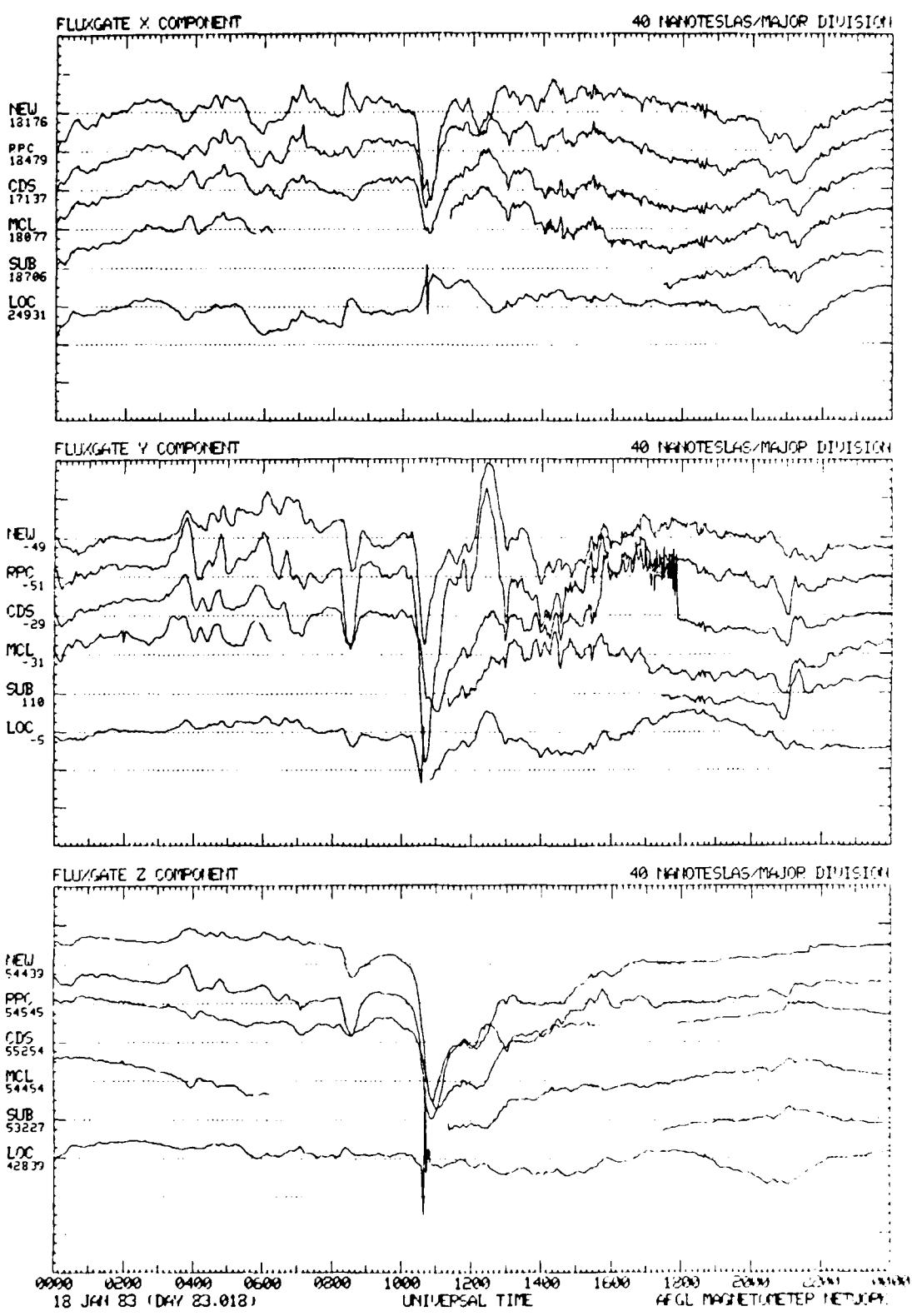
FLUXGATE Z COMPONENT

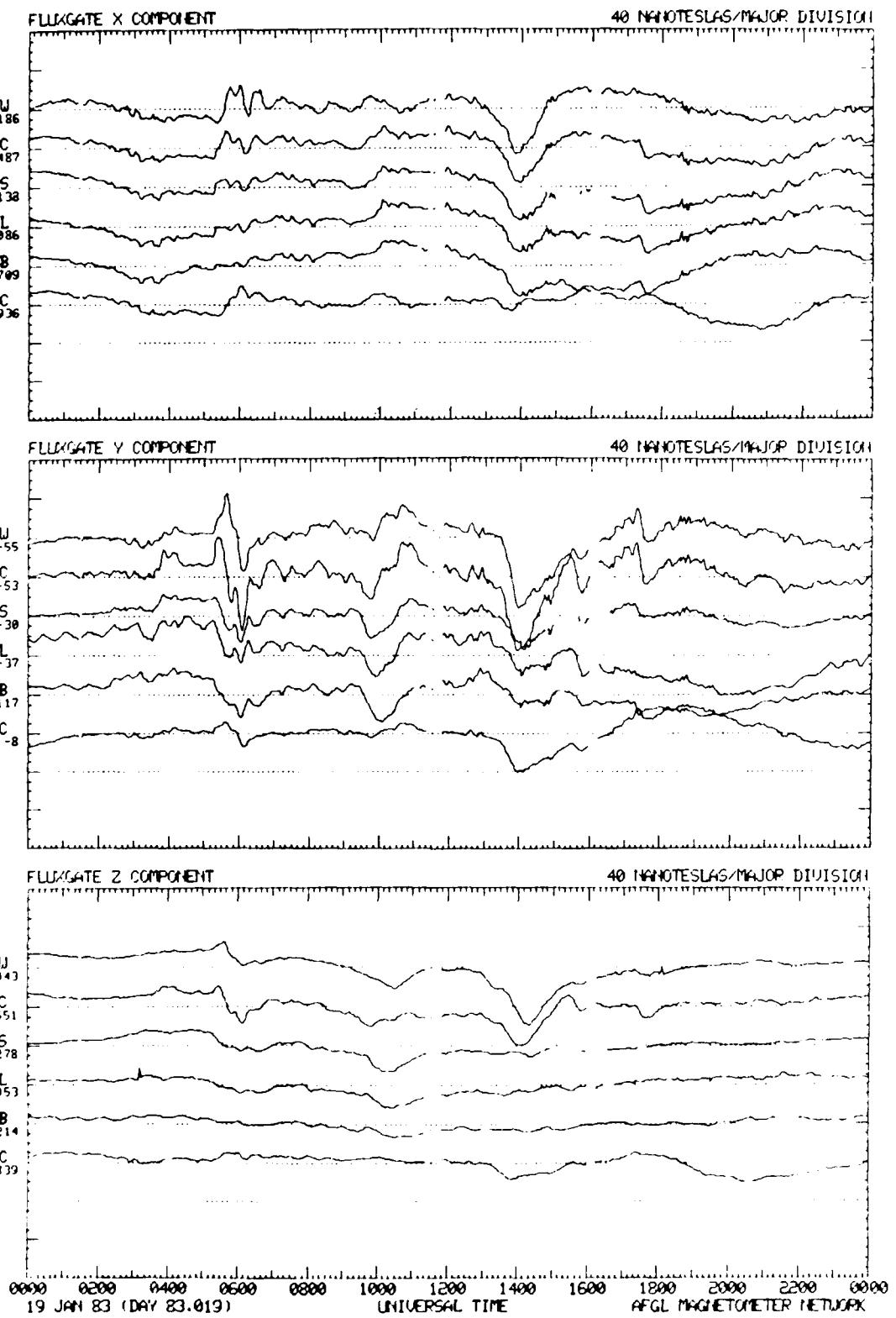
40 NANOTESLAS/MAJOR DIVISION

NEU
54428
RPC
54544
CDS
55263
MCL
54449
SUB
53208
LOC
42841

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 JUN 83 (DAY 23.016) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



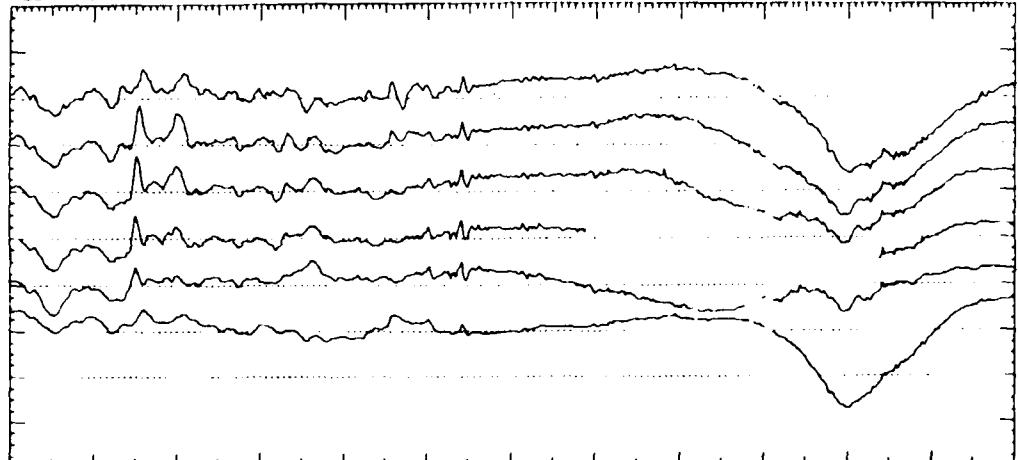




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

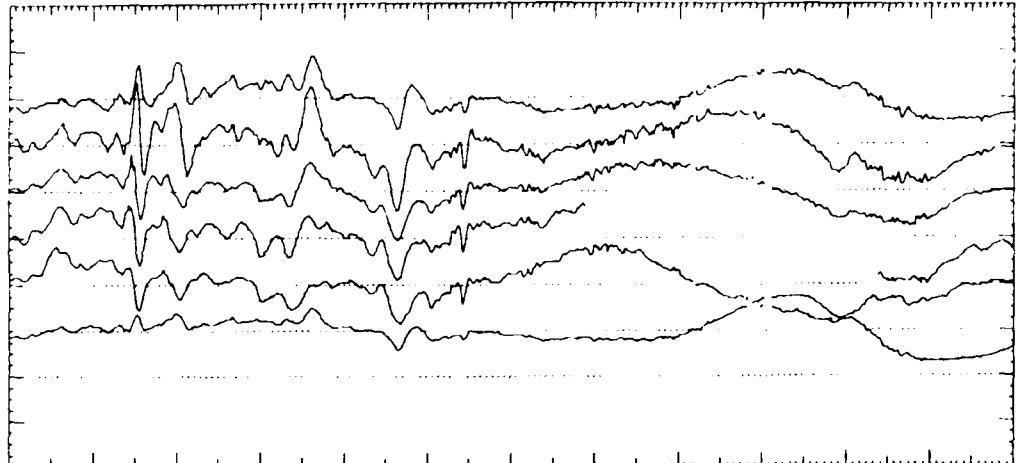
NEU
18184
RPC
18429
CDS
17143
MCL
1809
SUB
18711
LOC
24926



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
S1
RPC
-S1
CDS
-29
MCL
-34
SUB
121
LOC
-12

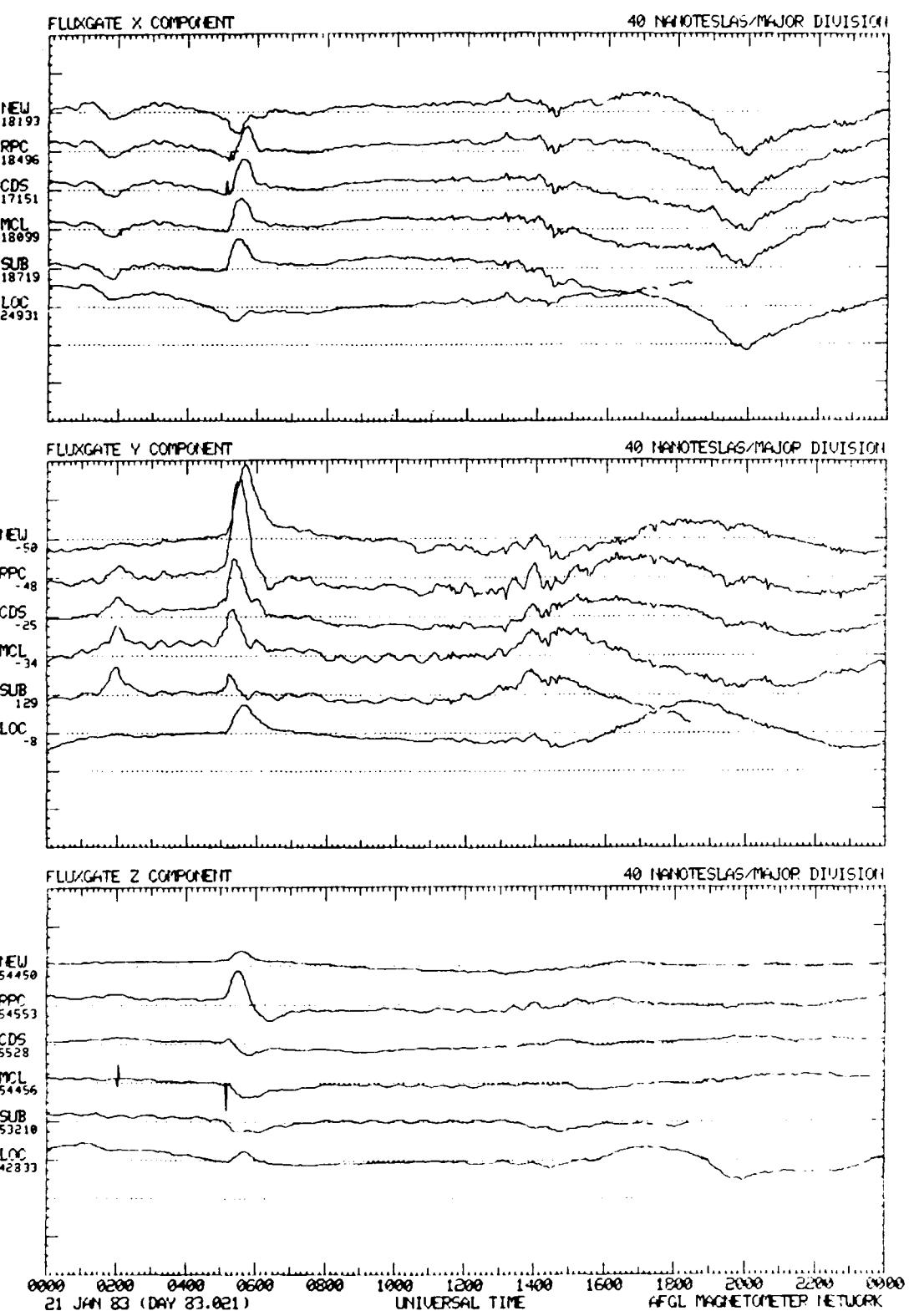


FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54448
PPC
54551
CDS
55279
MCL
54454
SUB
53214
LOC
42330

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
20 JAN 83 (DAY 23.020) UNIVERSAL TIME AFGL MAGNETOMETER NETWOR



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18193
RPC
12498
CDS
17150
MCL
18102
SUB
18721
LOC
24942

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-51
RPC
-50
CDS
-3
MCL
-45
SUB
119
LOC
-8

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

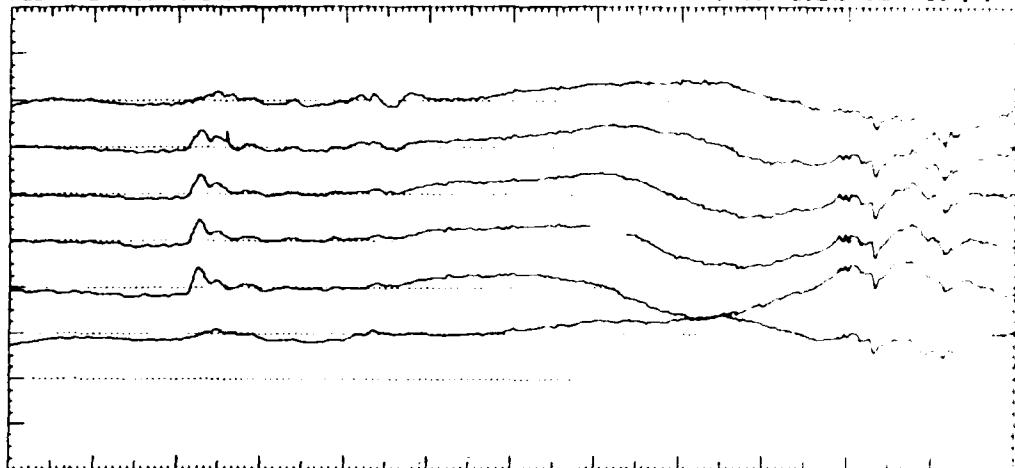
NEU
54447
RPC
54550
CDS
55277
MCL
54456
SUB
53210
LOC
42232

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 JAN 83 (DAY 83.022) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

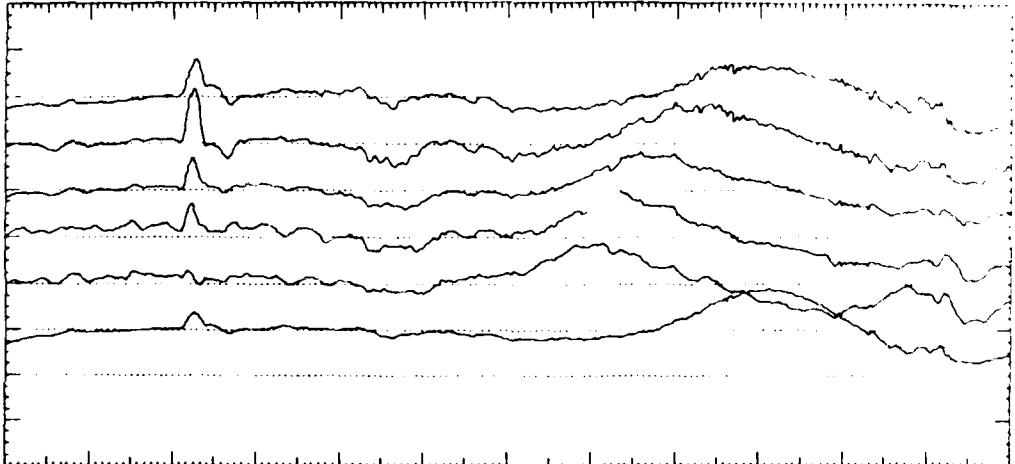
NEW
18200
RPC
18506
CDS
17160
MCL
18109
SUB
18729
LOC
24955



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

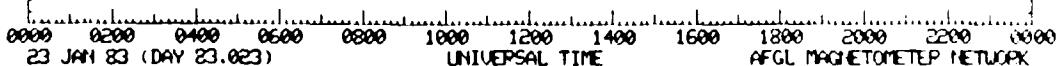
NEW
-53
RPC
-51
CDS
-30
MCL
-53
SUB
122
LOC
-9



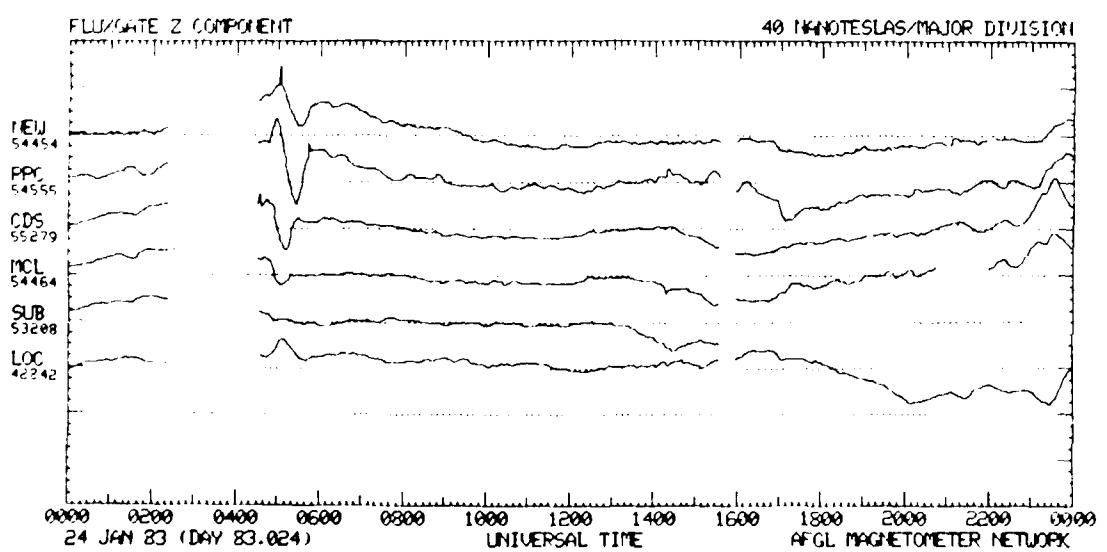
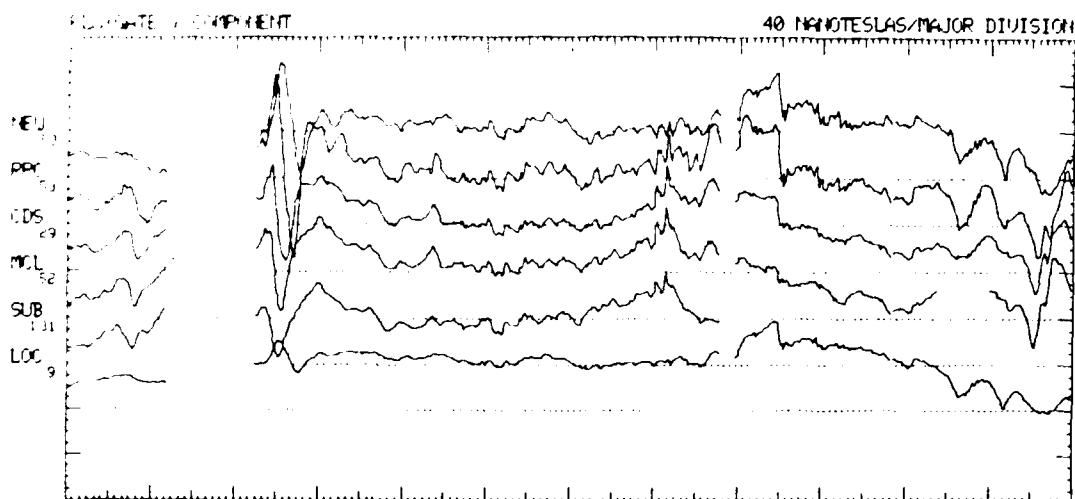
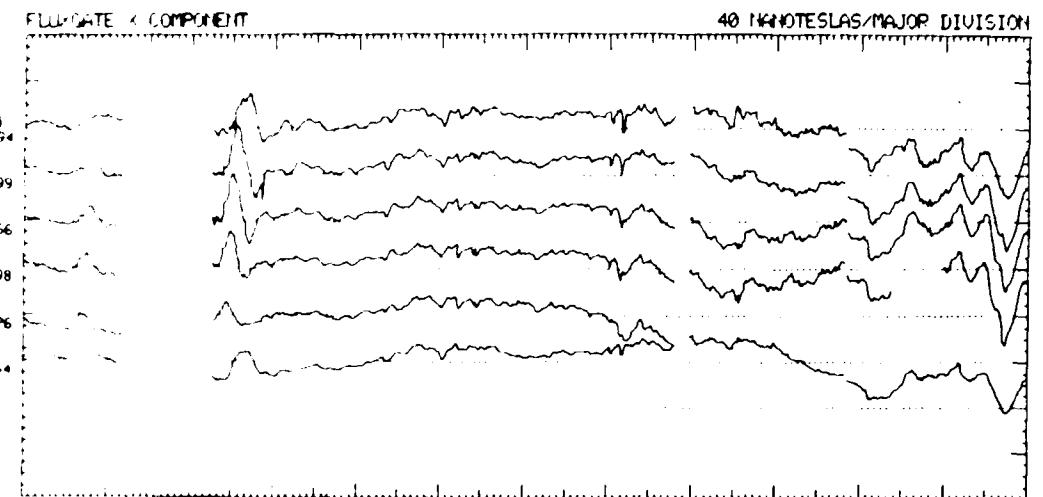
FLUXGATE Z COMPONENT

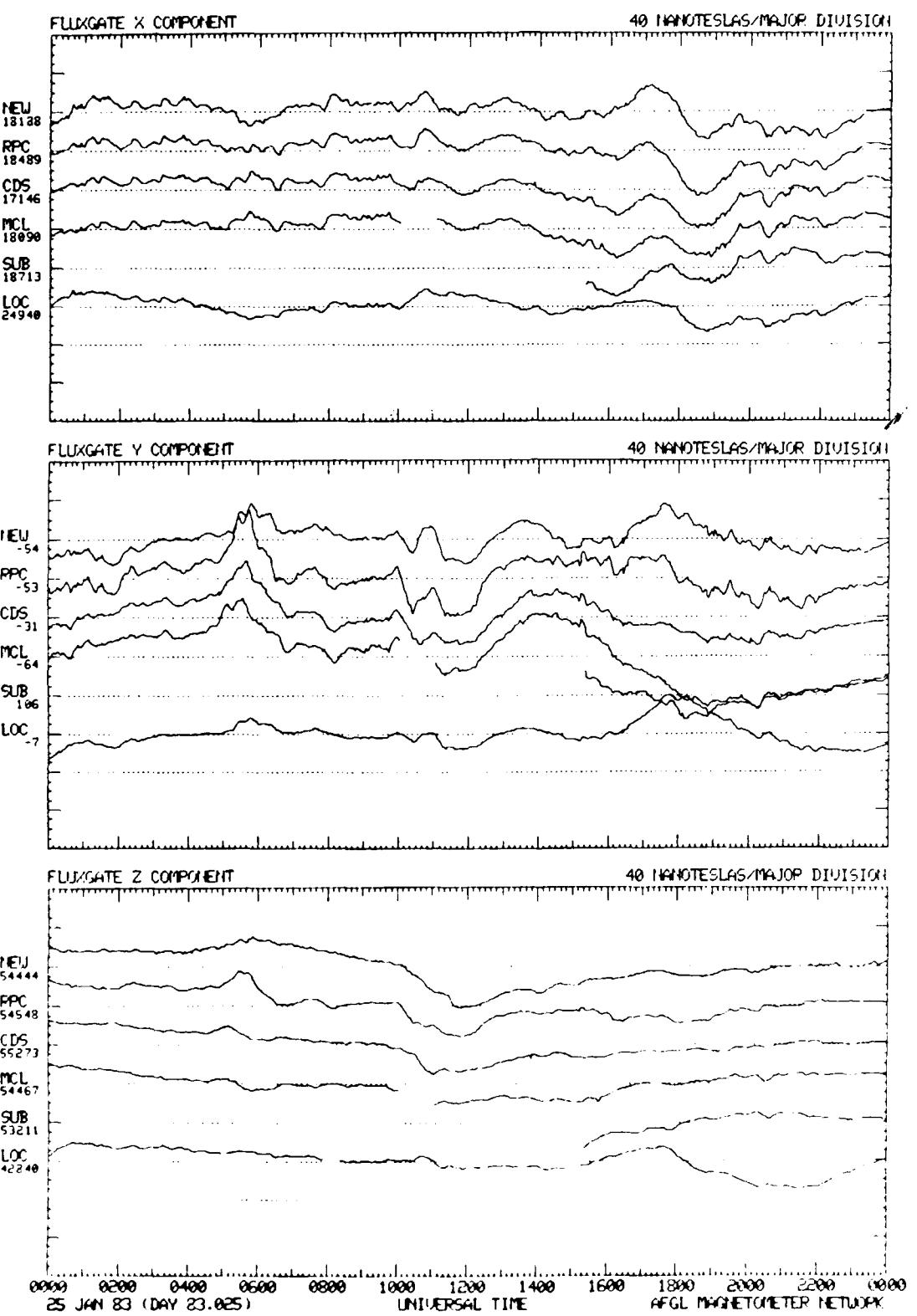
40 NANOTESLAS/MAJOR DIVISION

NEW
54448
PPC
54548
CDS
55273
MCL
5445
SUB
53206
LOC
42336



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 JAN 83 (DAY 23.023) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU 12193
PPC 12494
CDS 12148
MCL 12097
SUB 12722
LOC 24249

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU 12193
PPC 12494
CDS 12148
MCL 12097
SUB 12722
LOC 24249

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

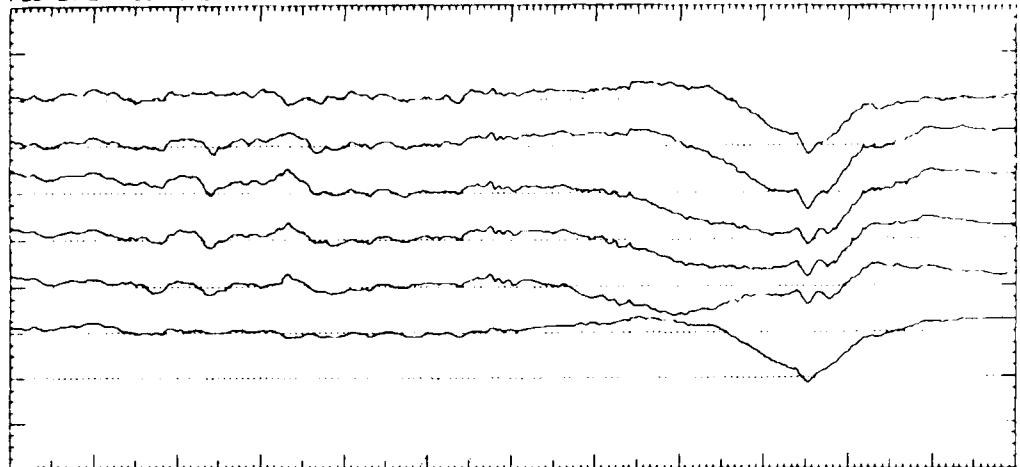
NEU 12444
PPC 12541
CDS 12148
MCL 12092
SUB 12722
LOC 24249

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
05 JAN 23 (DAY 23.026) UNIVERSAL TIME 4000 4200 4400 4600
REG. MAGNETOMETER RECORD

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

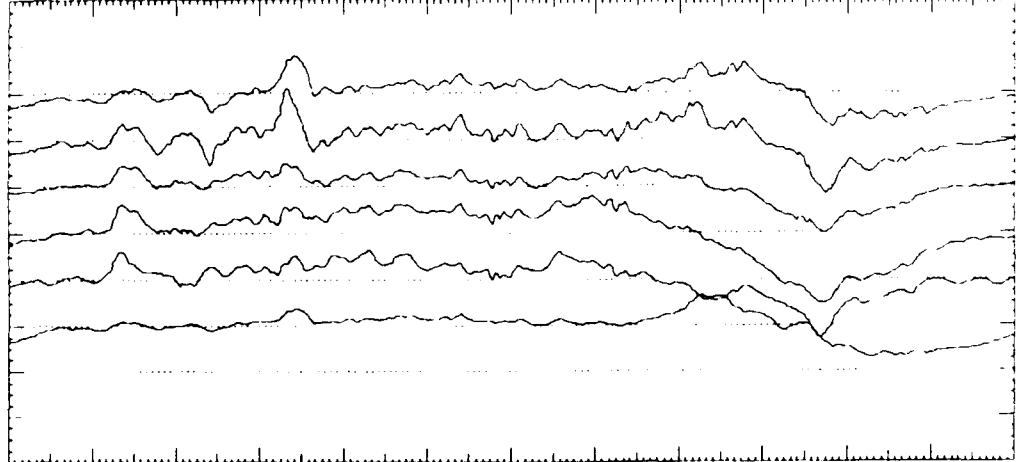
NEU
18193
PPC
18496
CDS
17139
MCL
18097
SUB
18728
LOC
2494



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-5
PPC
-51
CDS
-26
MCL
-35
SUB
127
LOC
-10



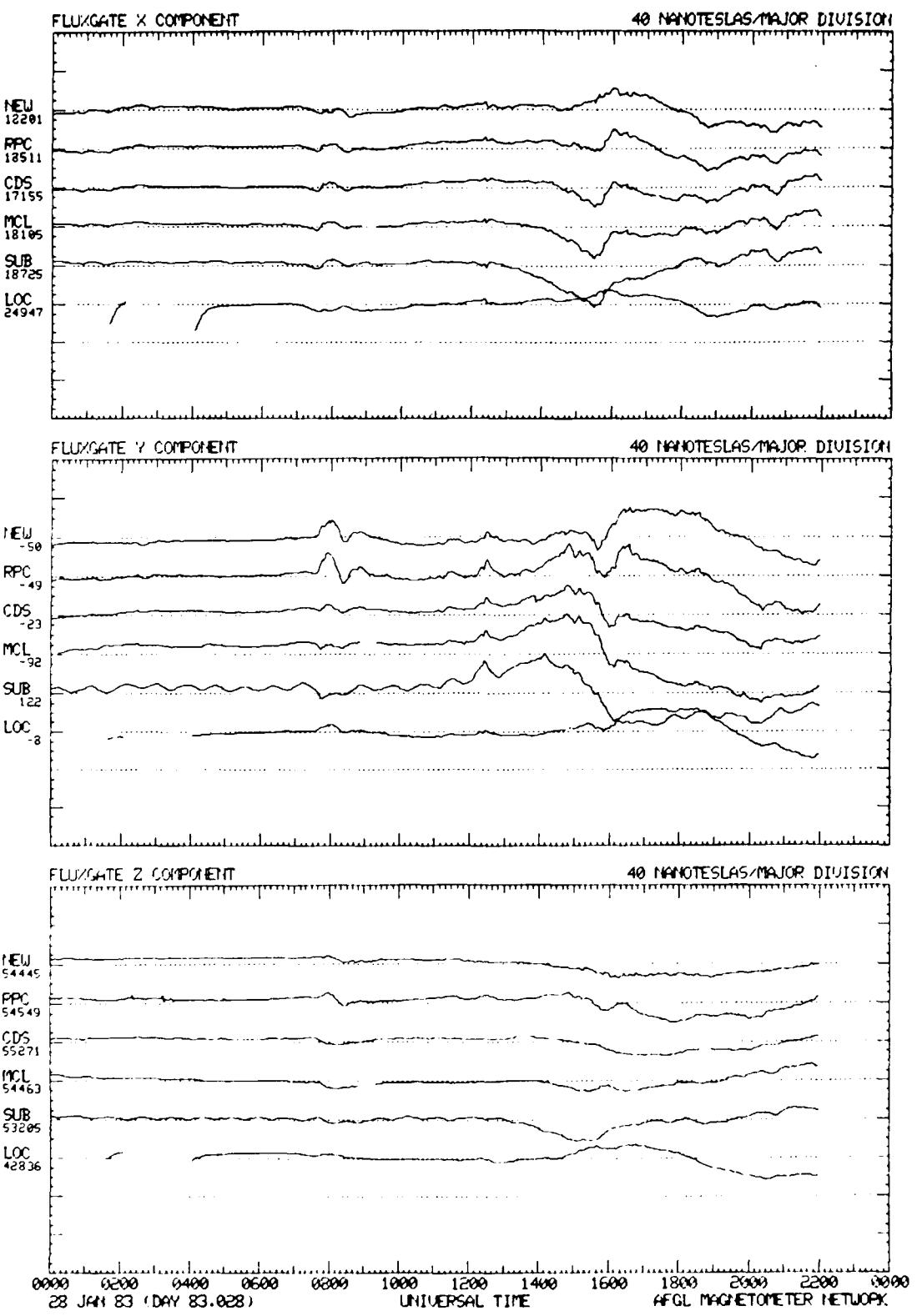
FLUXGATE Z COMPONENT

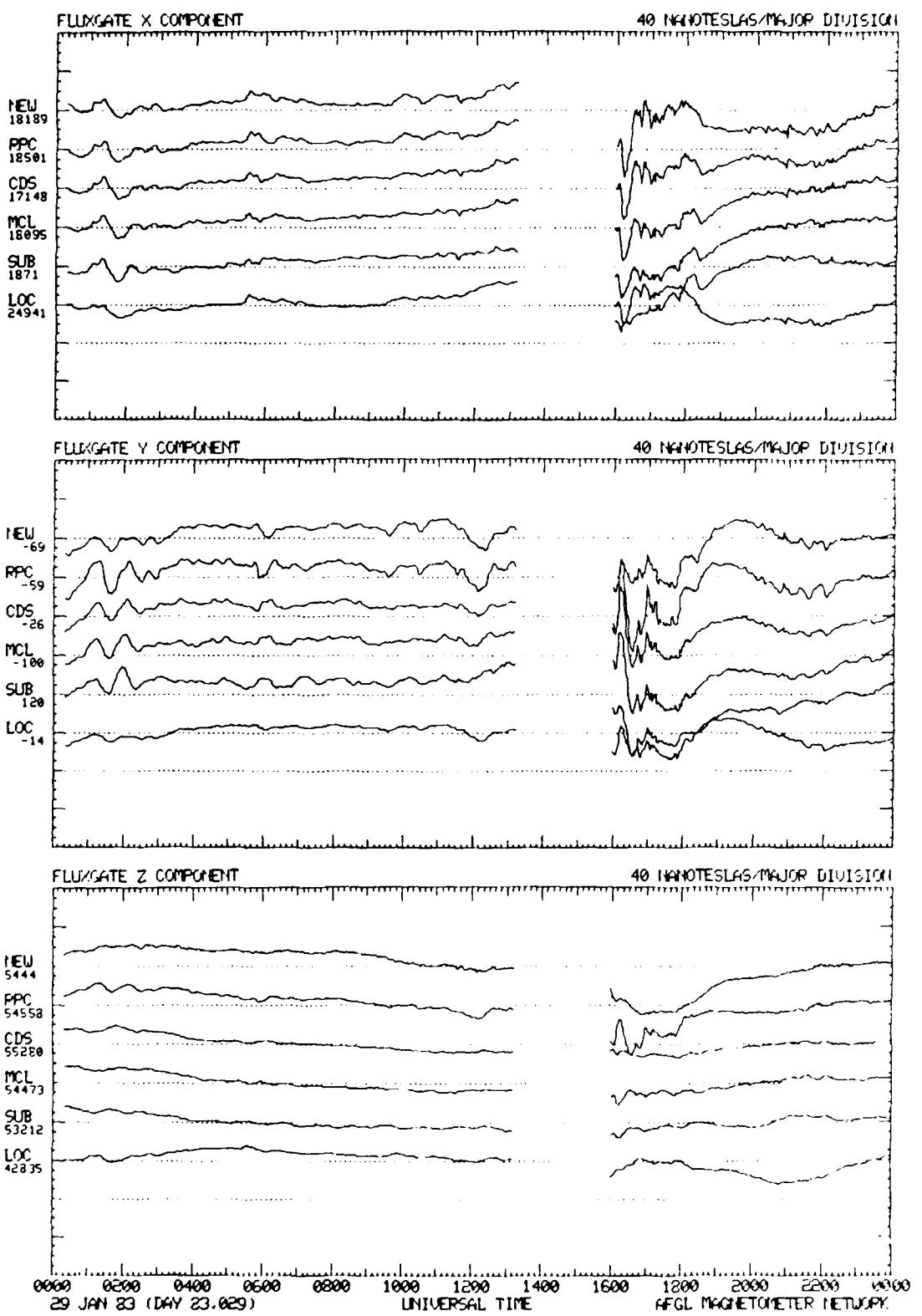
40 NANOTESLAS/MAJOR DIVISION

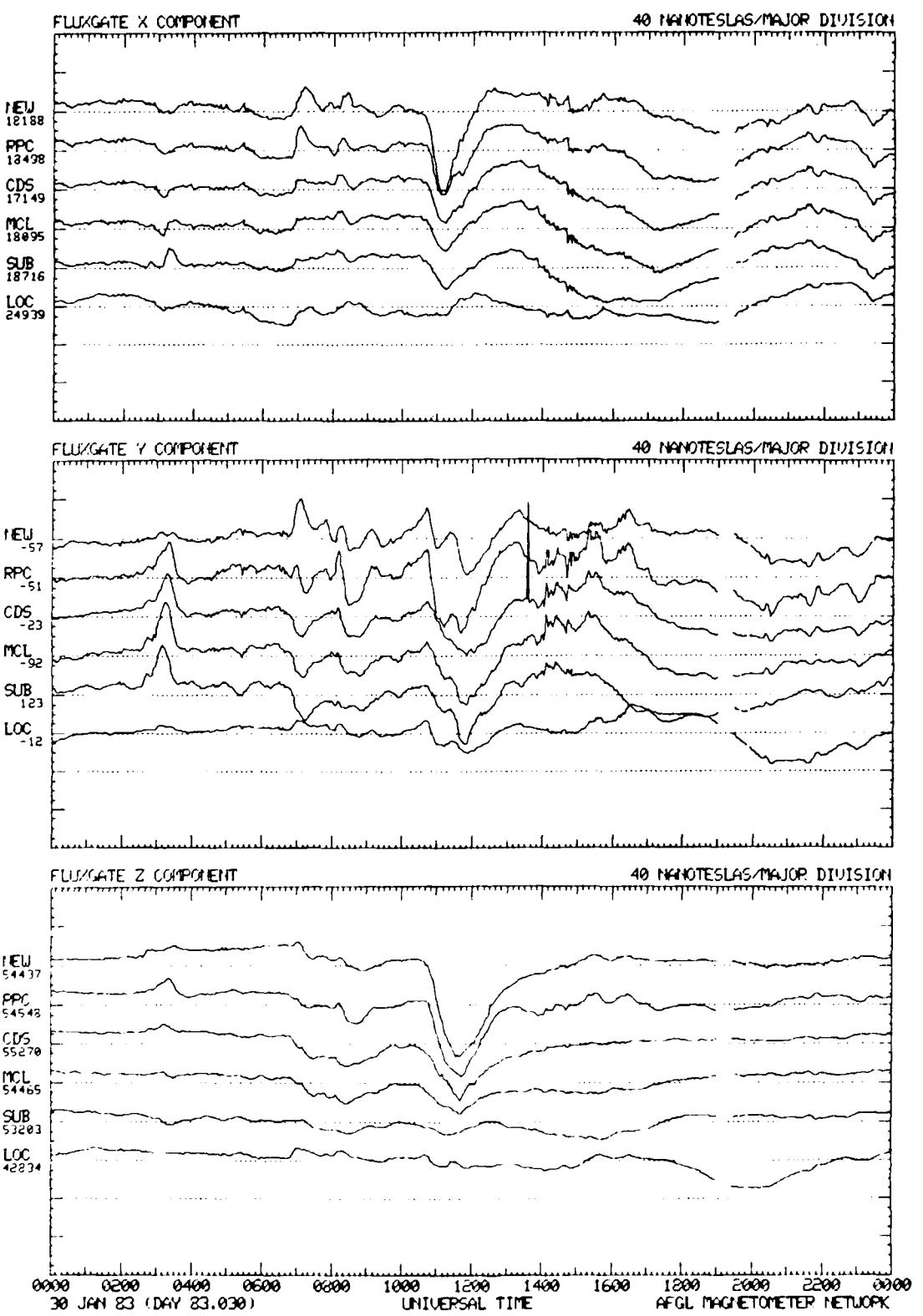
NEU
54443
PPC
54552
CDS
55279
MCL
54467
SUB
51208
LOC
46240

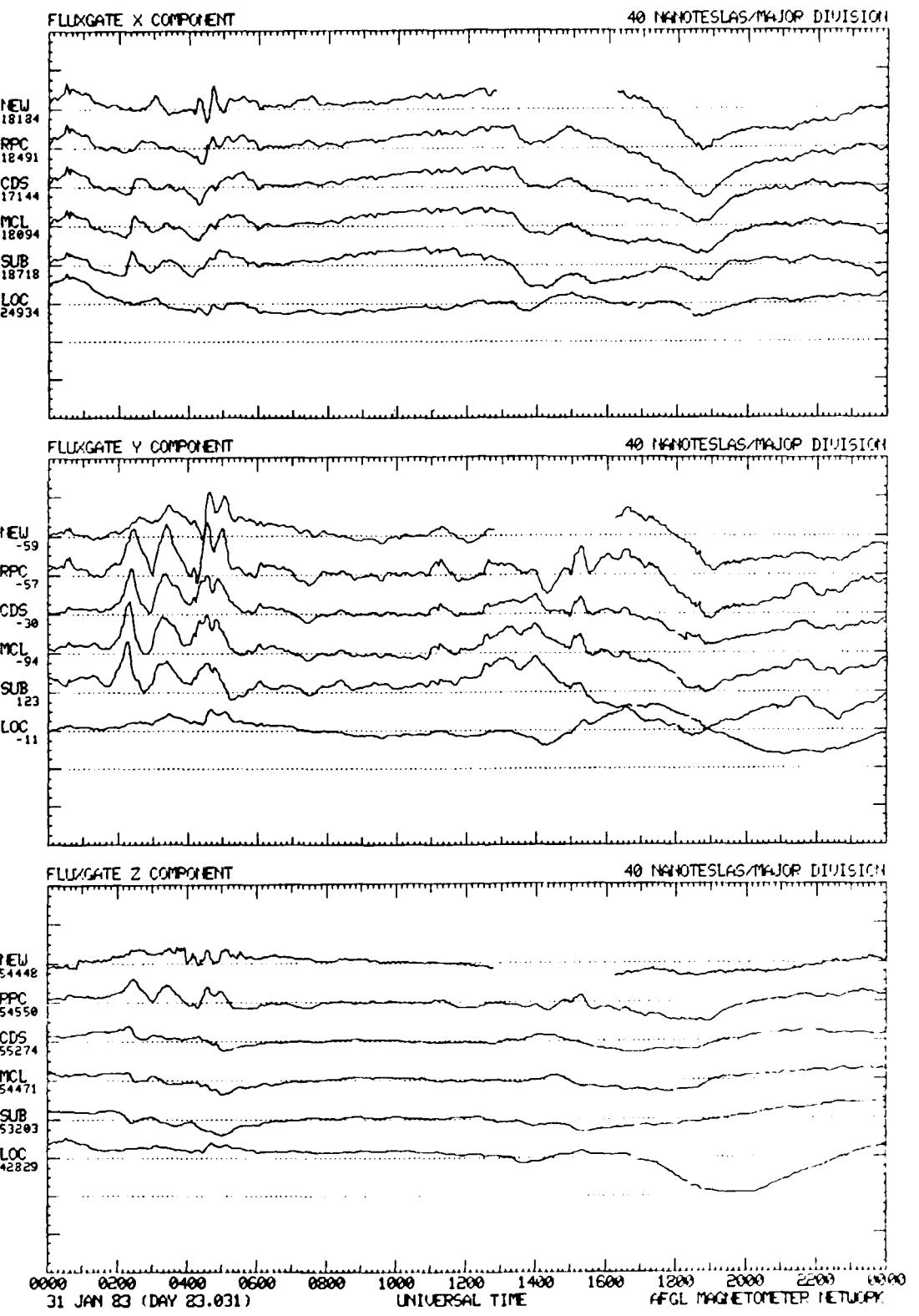
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300
UNIVERSAL TIME
27 JAN 23 (DAY 23.027)

AFGL MAGNETOGRAM NETWORK





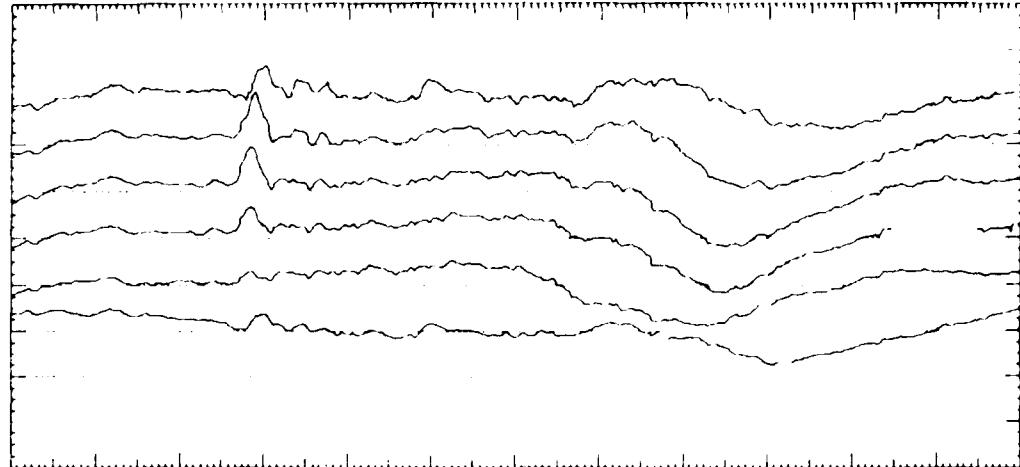




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

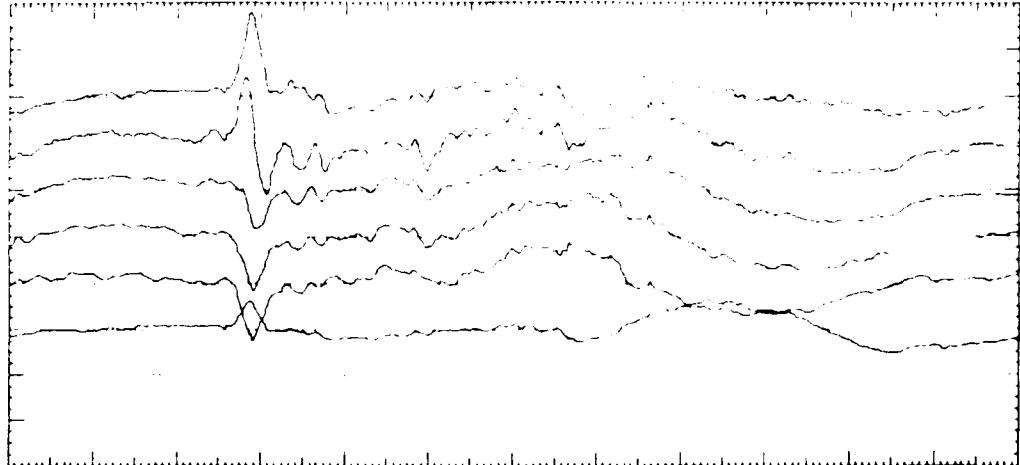
NEU
18191
RPC
18497
CDS
17148
MCL
18095
SUB
18720
LOC
24931



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

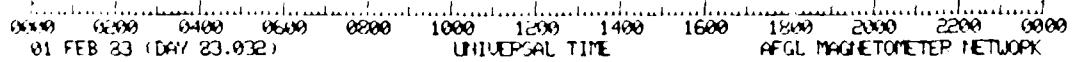
NEU
-54
PPC
-49
CDS
-26
MCL
-91
SUB
122
LOC
-8



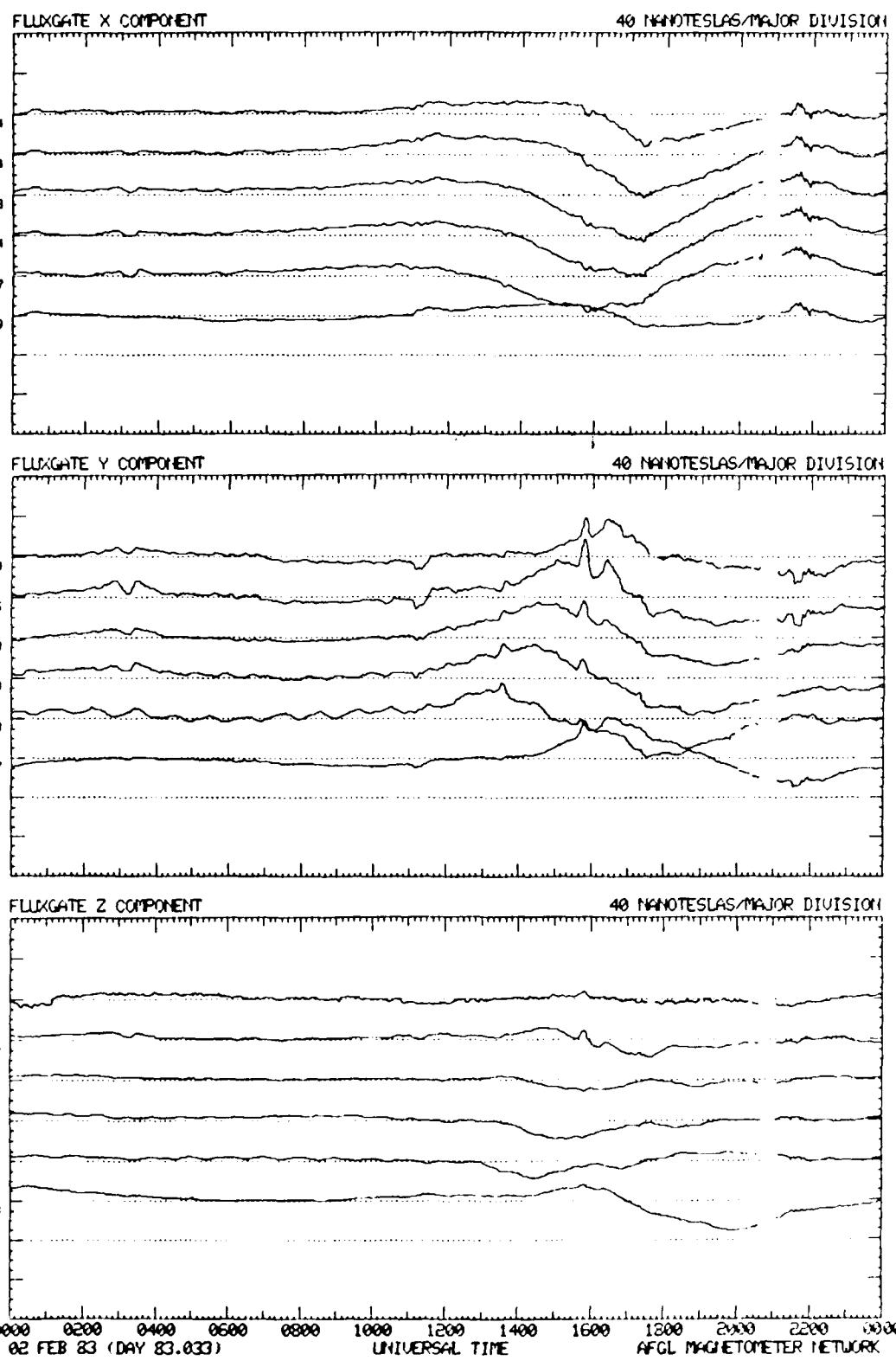
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54445
PPC
54549
CDS
55267
MCL
54466
SUB
53205
LOC
46214



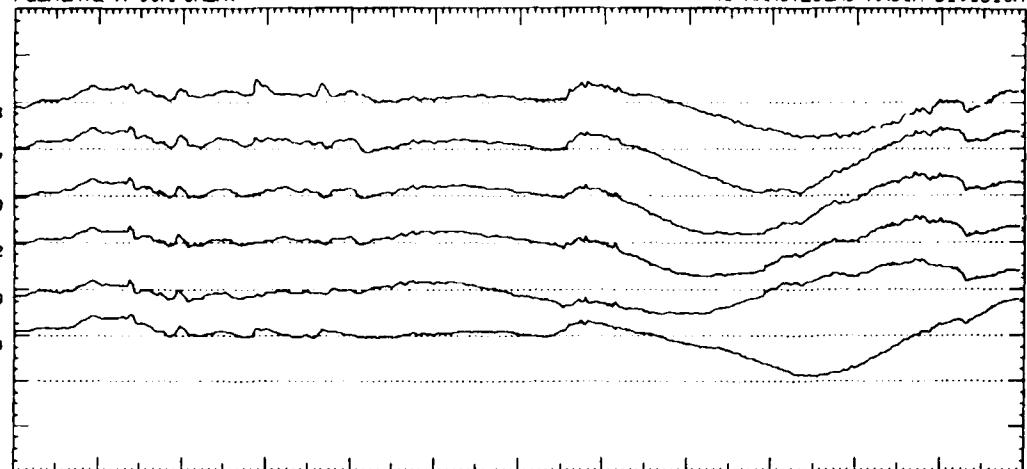
0000 0600 0300 0600 0900 1200 1500 1800 2100 2400 0000
01 FEB 83 (DAY 23.032) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

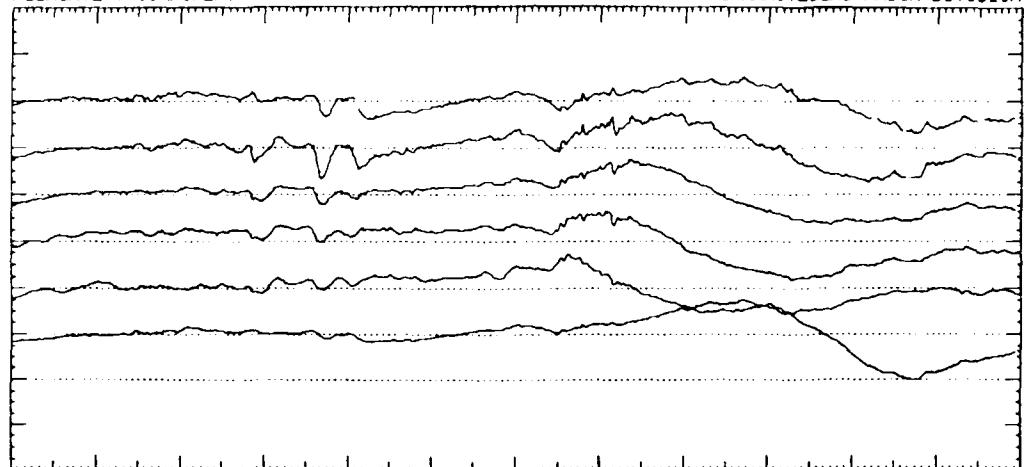
NEU
18198
RPC
18507
CDS
17159
MCL
18112
SUB
18739
LOC
24944



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-63
RPC
-59
CDS
-28
MCL
-98
SUB
131
LOC
-11

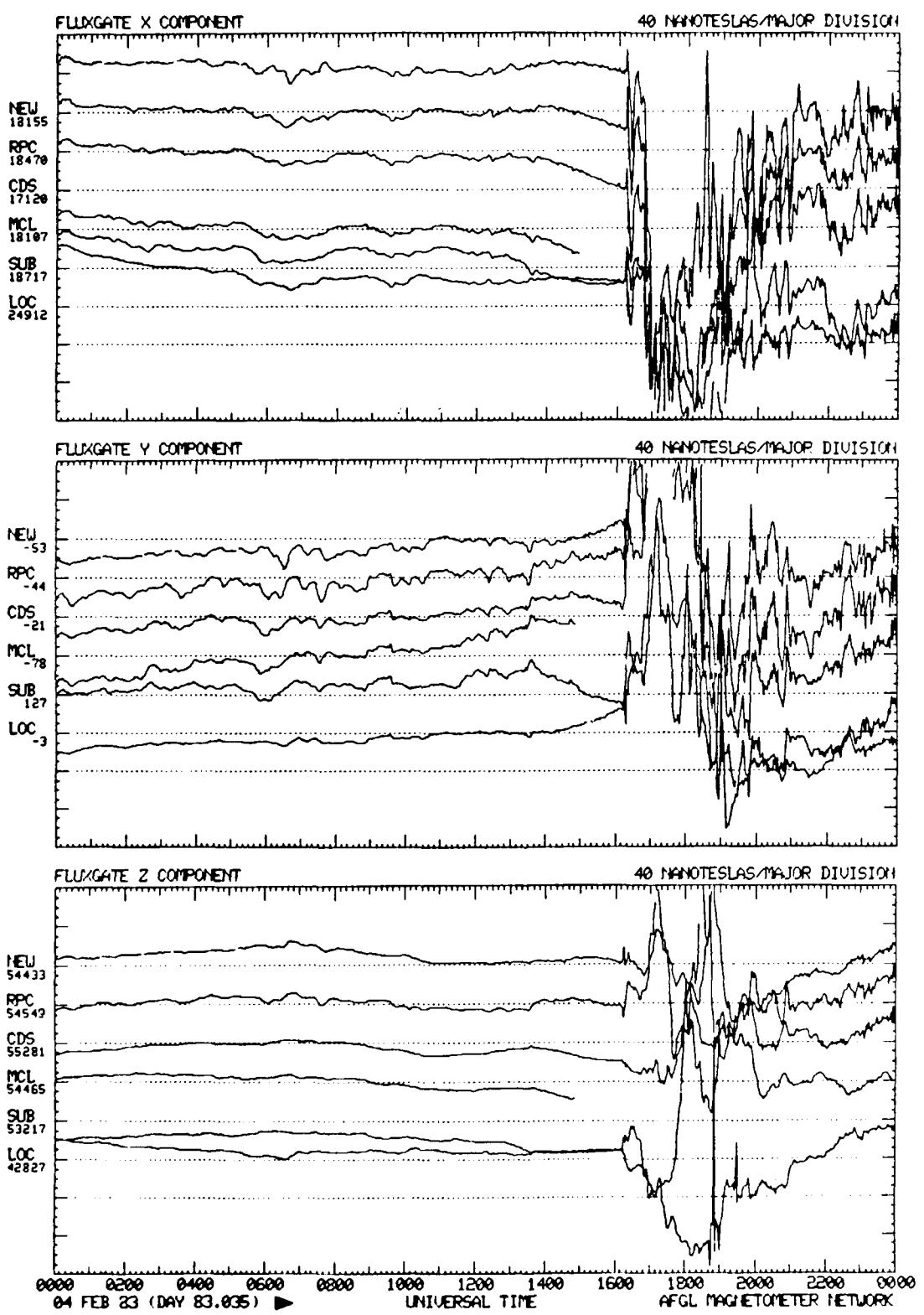


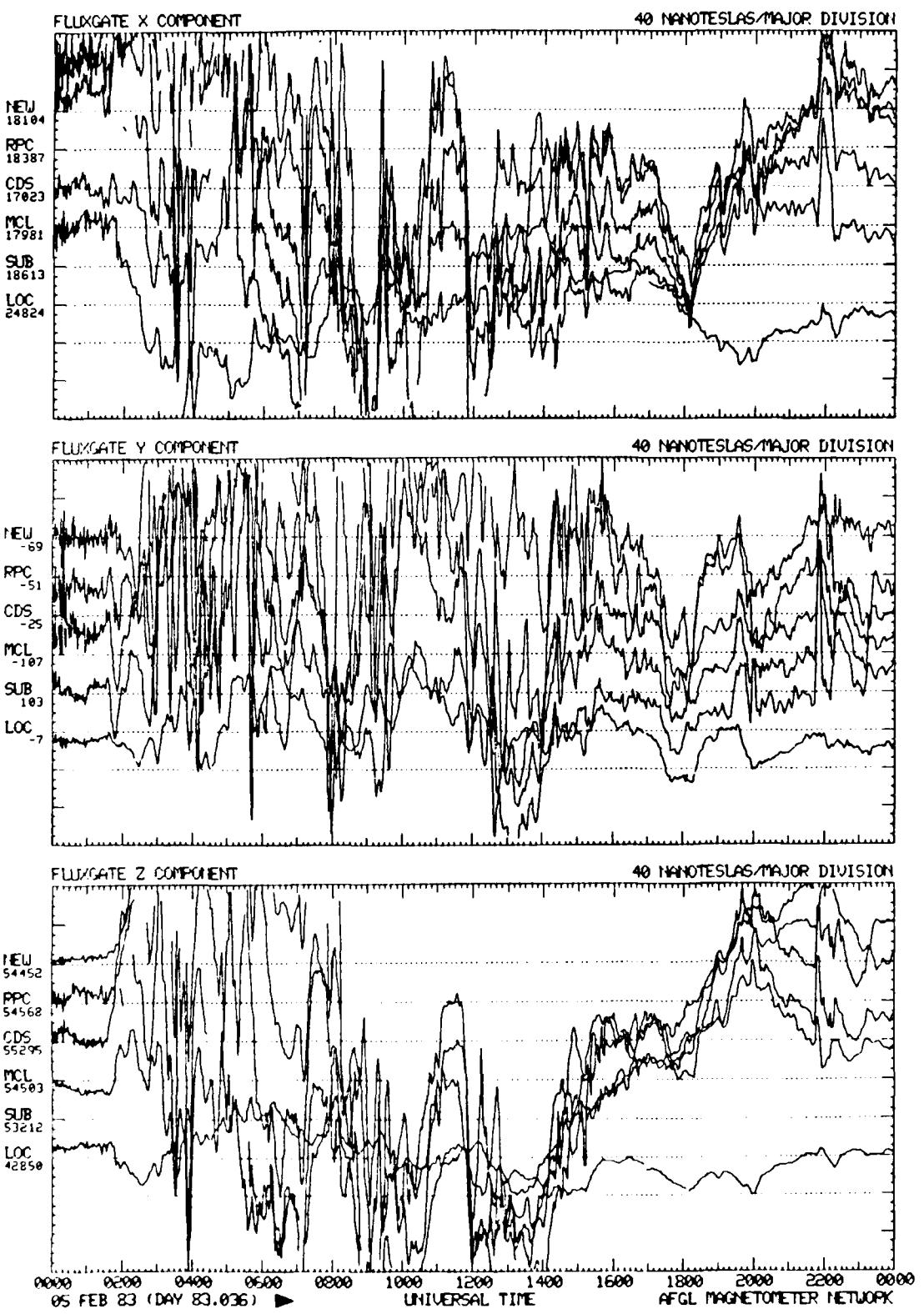
FLUXGATE Z COMPONENT

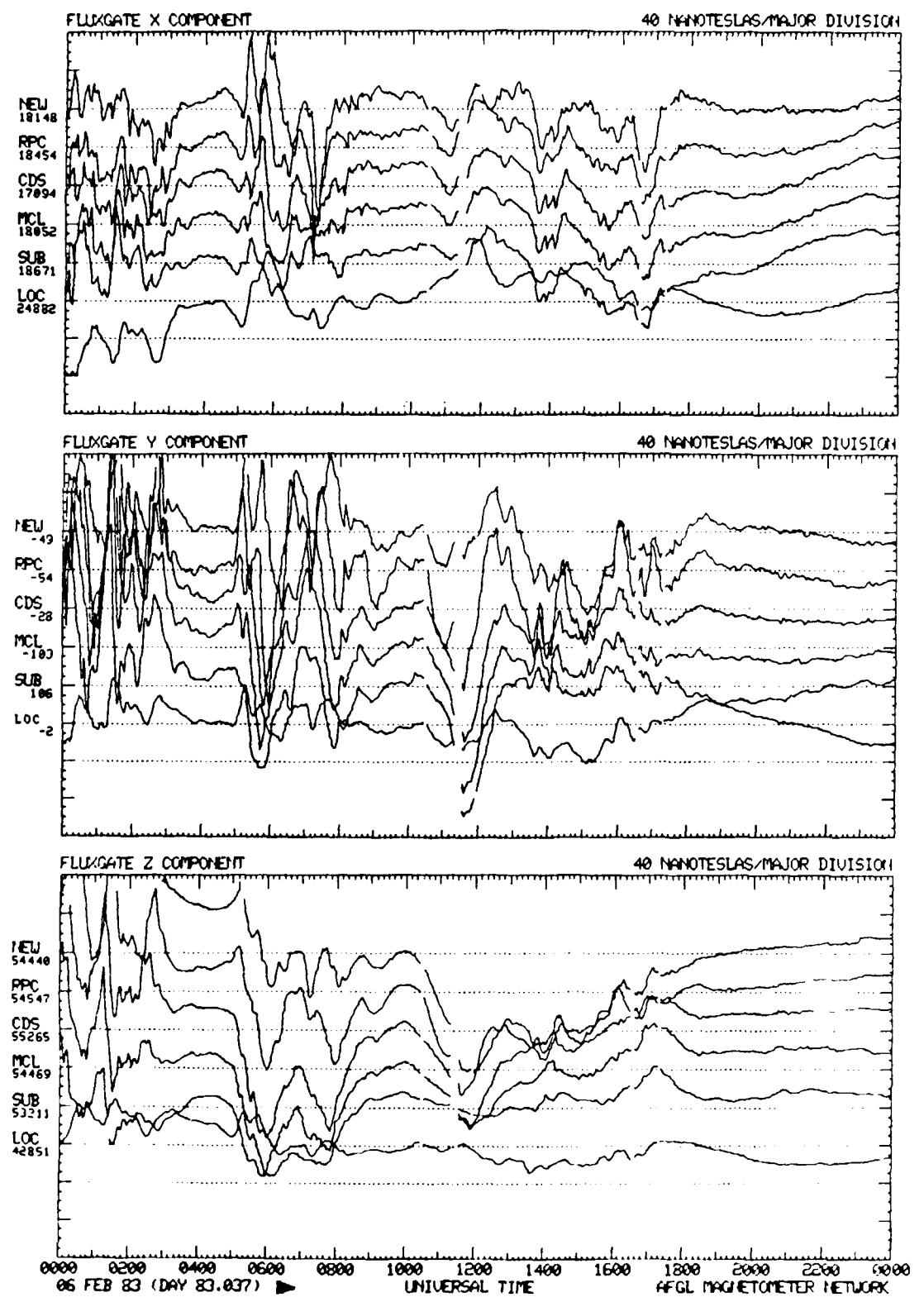
40 NANOTESLAS/MAJOR DIVISION

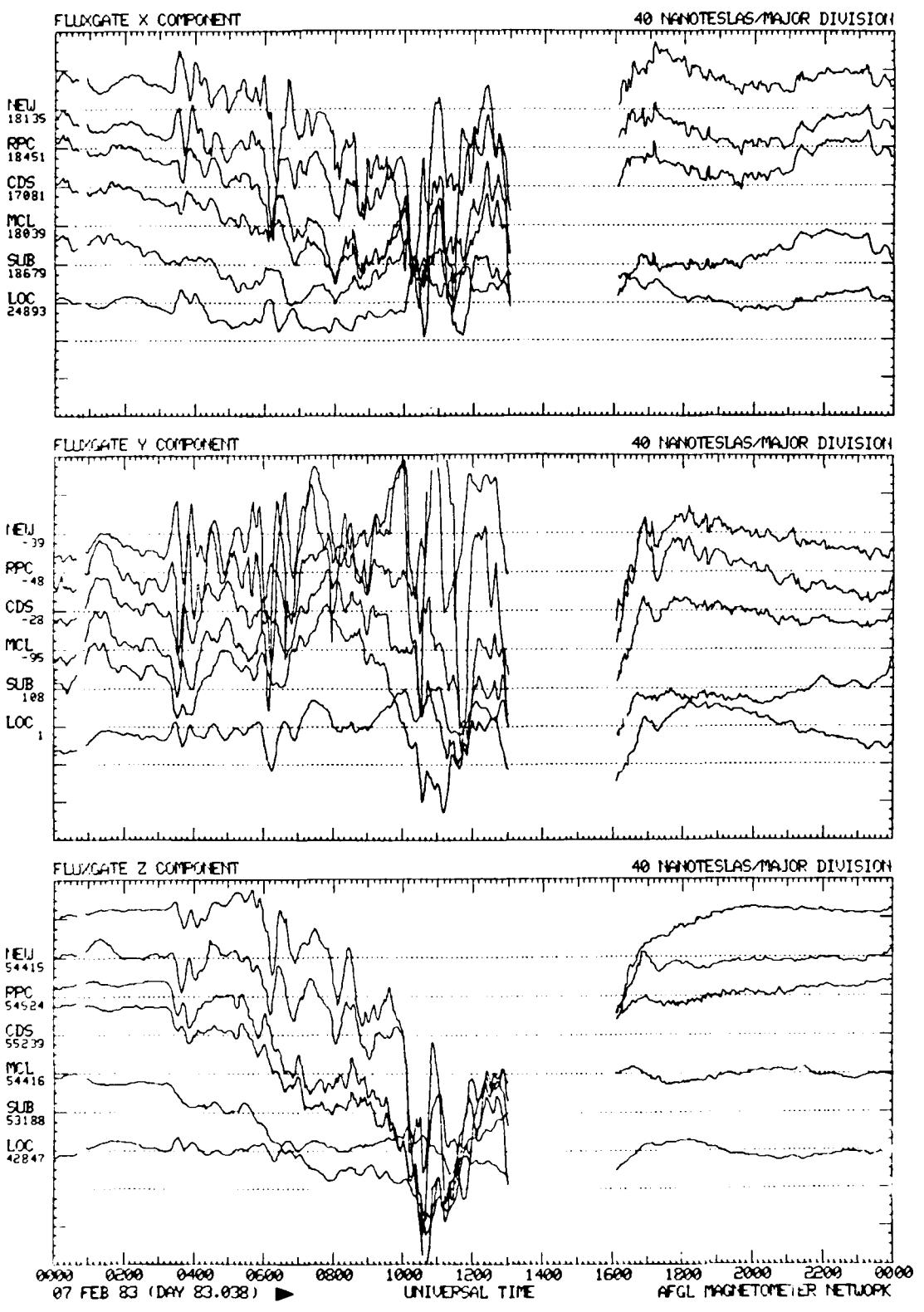
NEU
54437
RPC
54542
CDS
55269
MCL
54466
SUB
5319
LOC
42826

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 FEB 83 (DAY 83.034) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



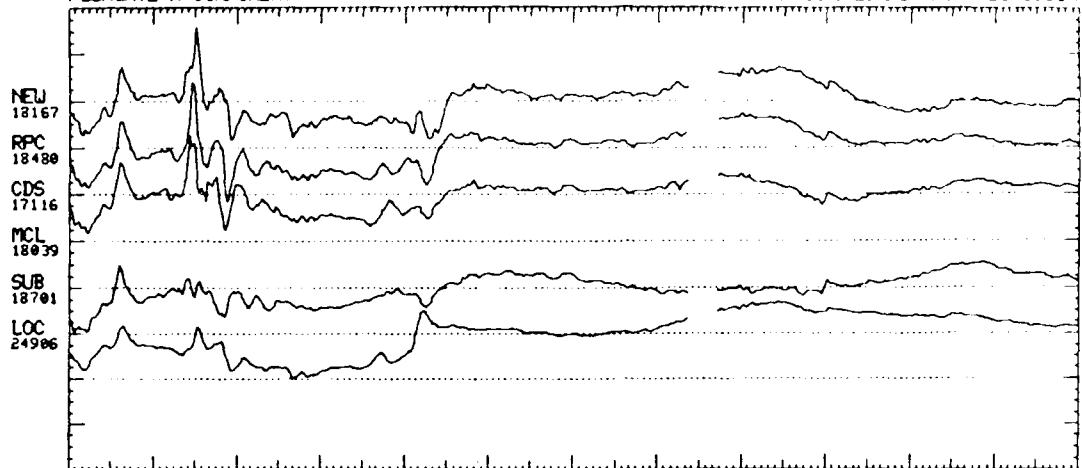






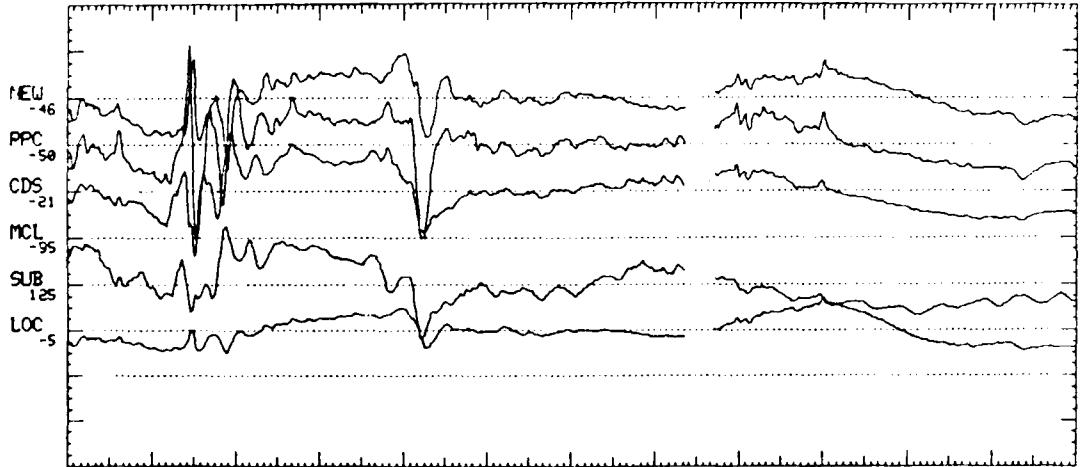
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



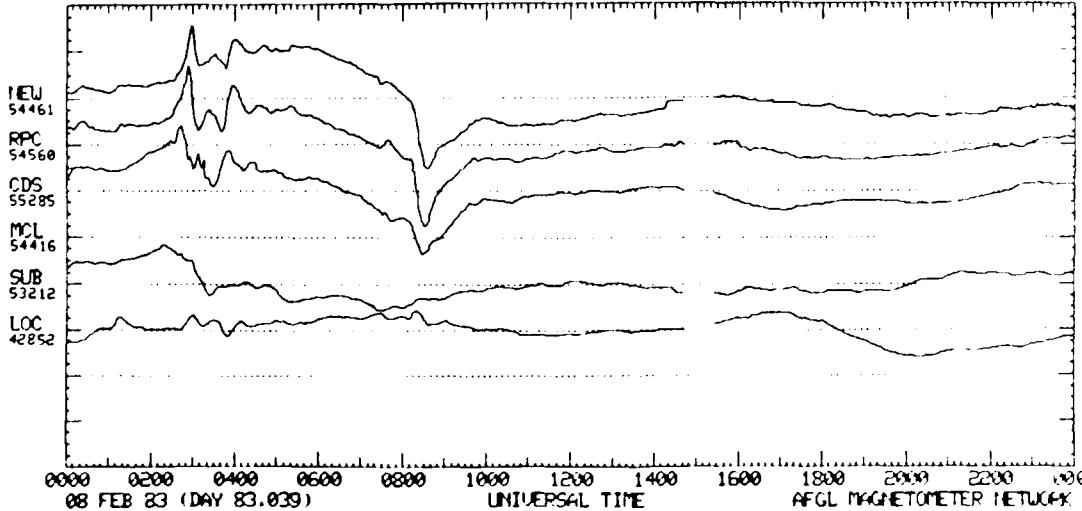
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



08 FEB 83 (DAY 83.039)

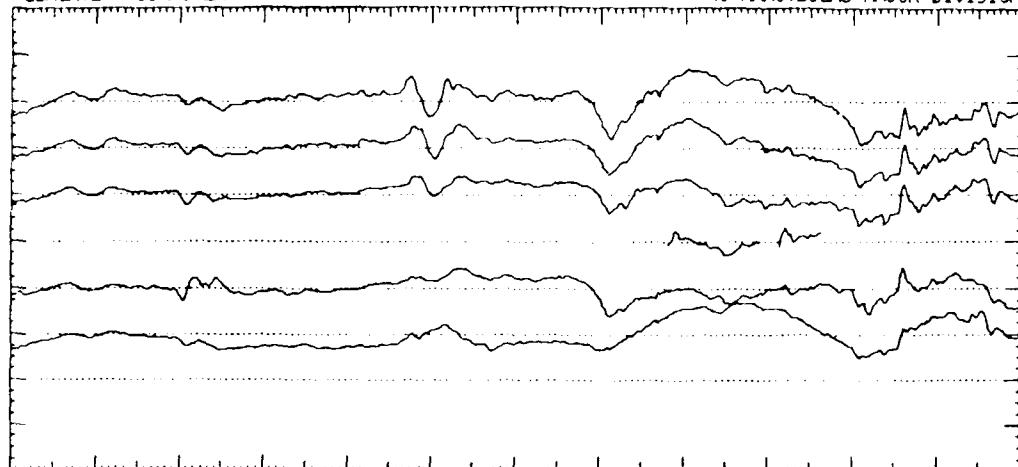
UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

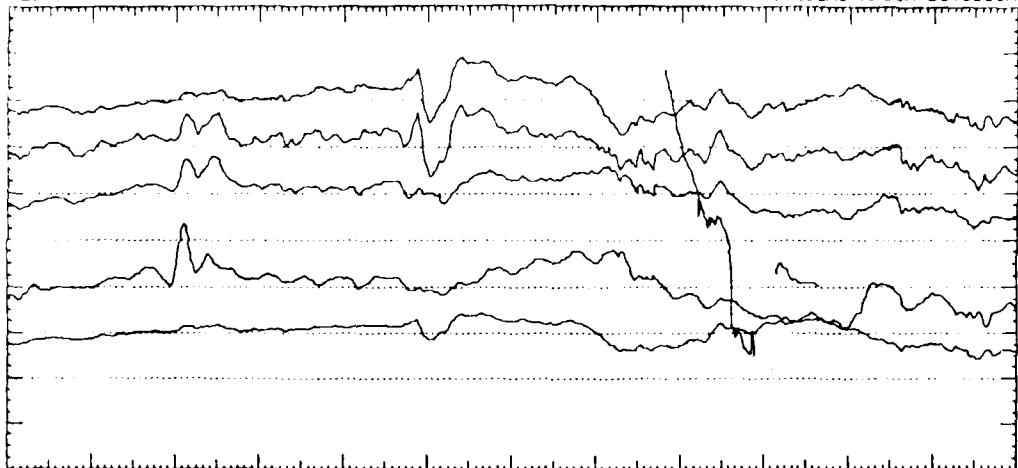
NEU
18181
RPC
18492
CDS
17129
MCL
1807
SUB
18713
LOC
24926



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-52
RPC
-68
CDS
-28
MCL
-55
SUB
118
LOC
-18



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

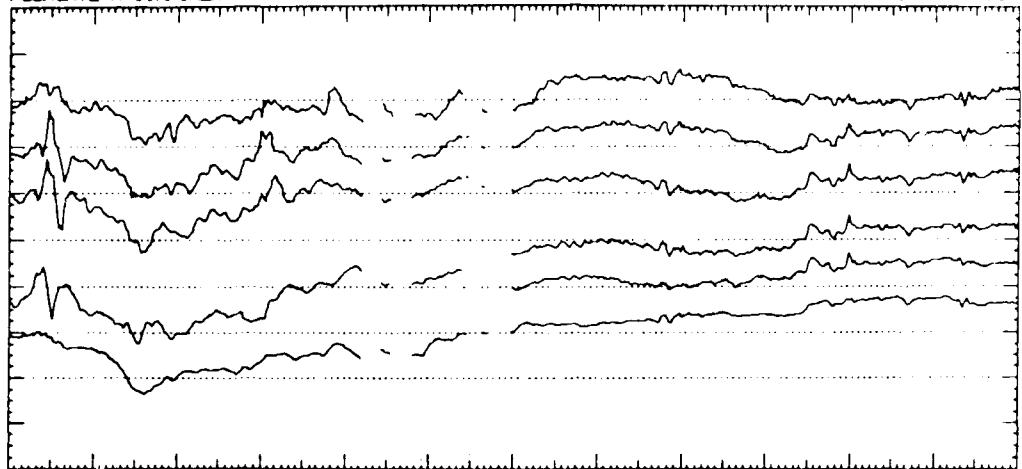
NEU
54448
RPC
54552
CDS
55280
MCL
54447
SUB
53211
LOC
42845

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 FEB 83 (DAY 83.040) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

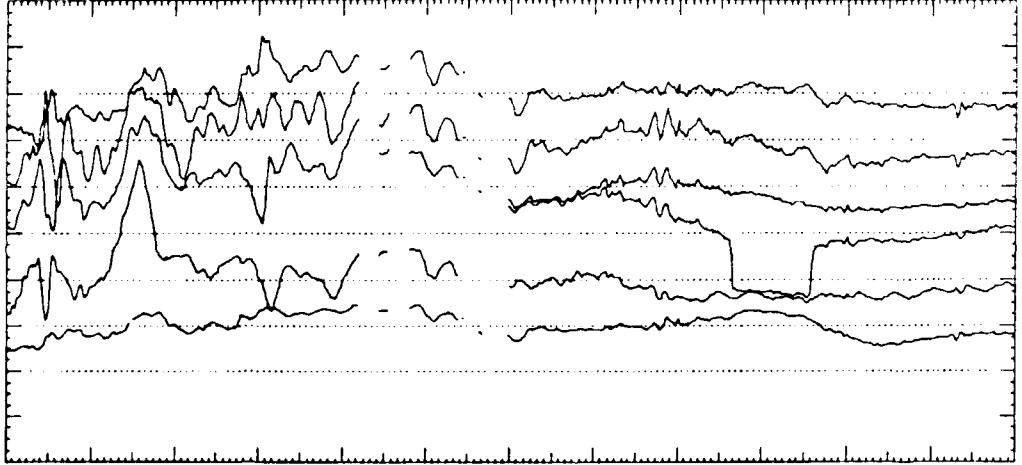
NEU
18179
RPC
18492
CDS
17128
MCL
18693
SUB
18789
LOC
24925



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

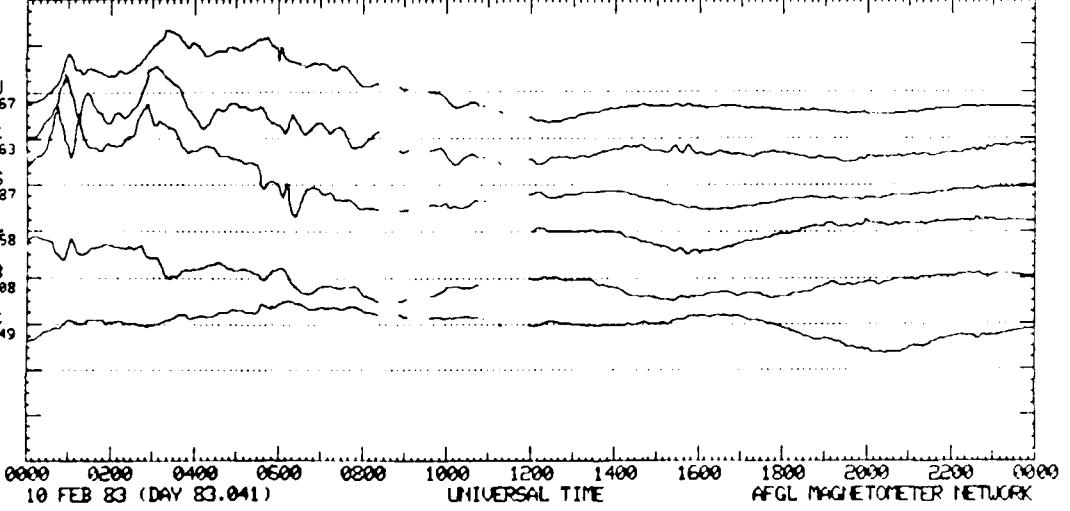
NEU
-45
RPC
-48
CDS
-12
MCL
-181
SUB
-25
LOC
-5



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

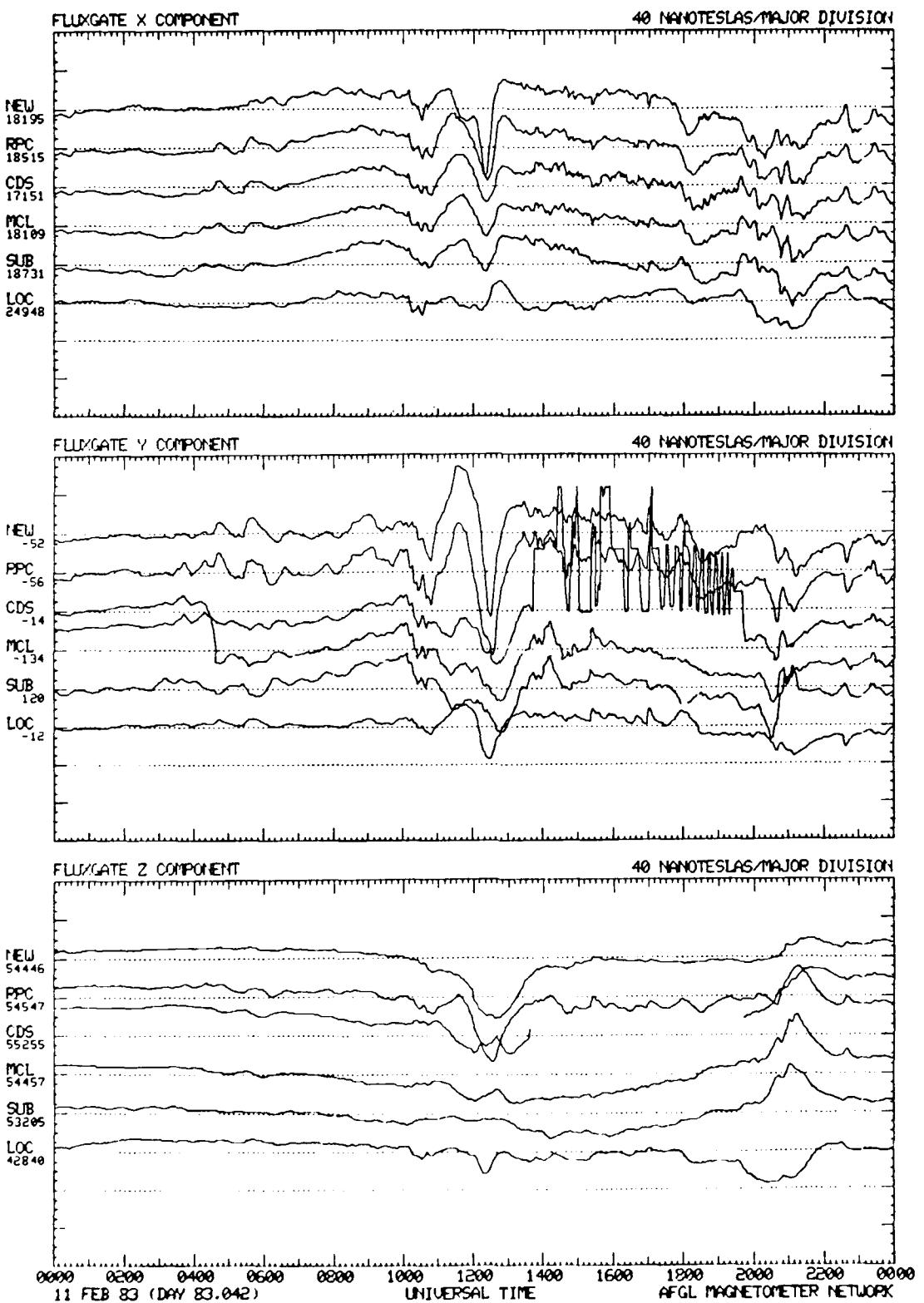
NEU
54467
RPC
54563
CDS
55287
MCL
54458
SUB
53268
LOC
42849

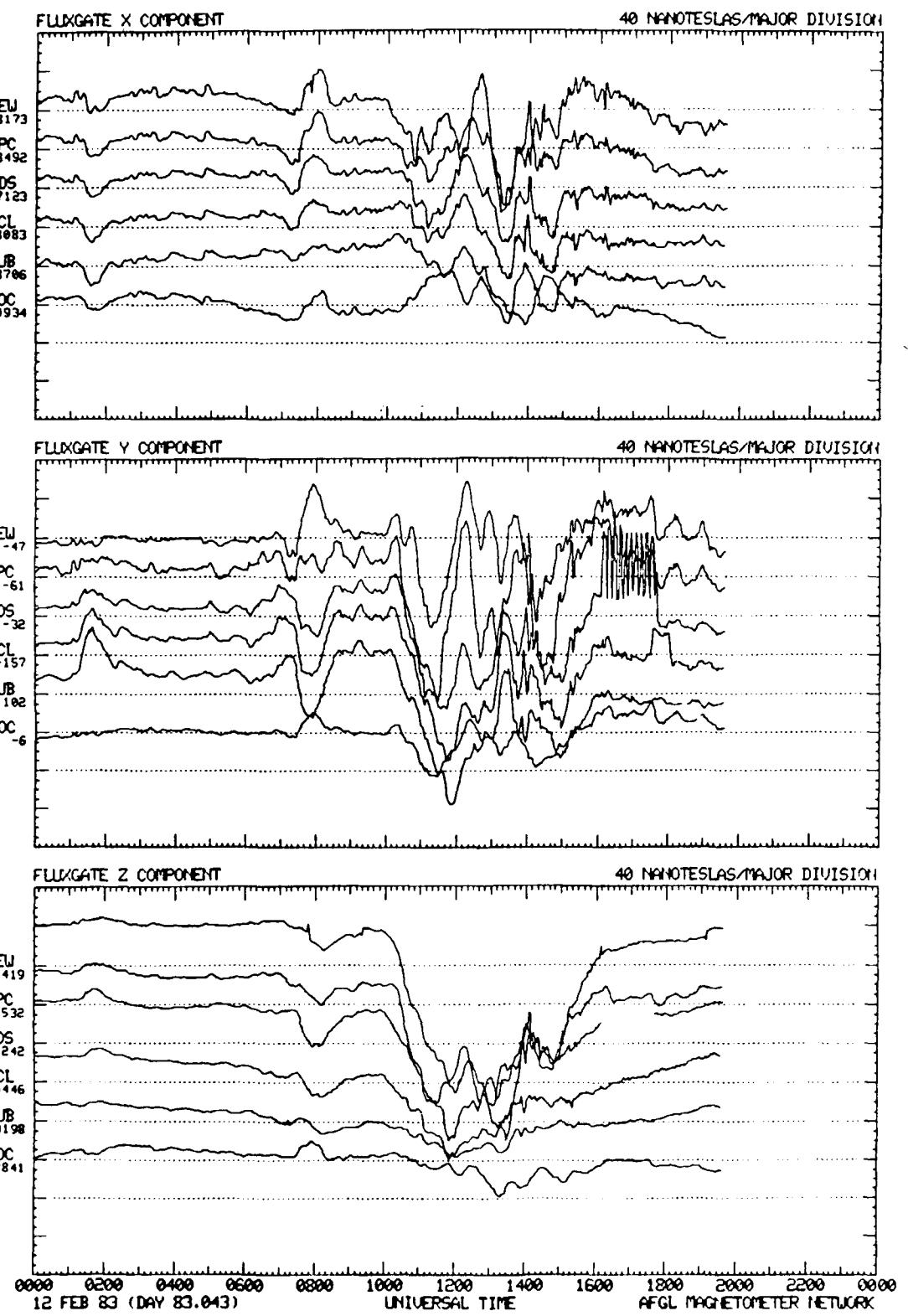


10 FEB 83 (DAY 83.041)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

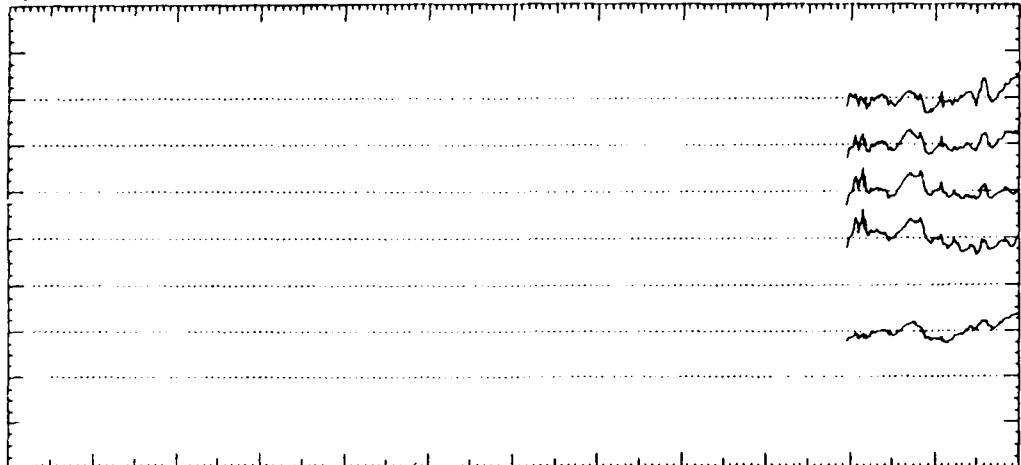




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18170
RPC
18500
CDS
17133
MCL
18090
SUB
18706
LOC
24921



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

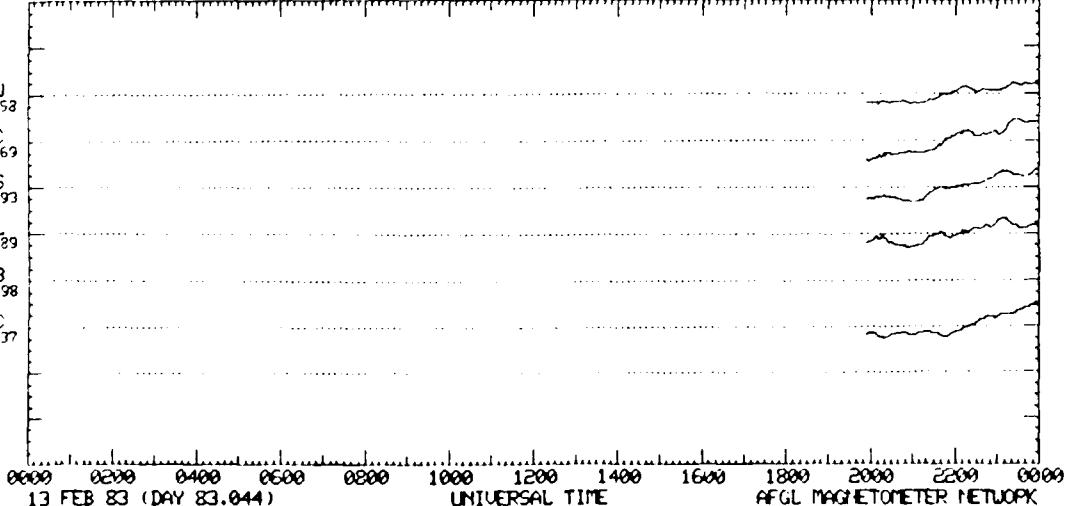
NEU
-63
RPC
-72
CDS
-43
MCL
-155
SUB
162
LOC
-22



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

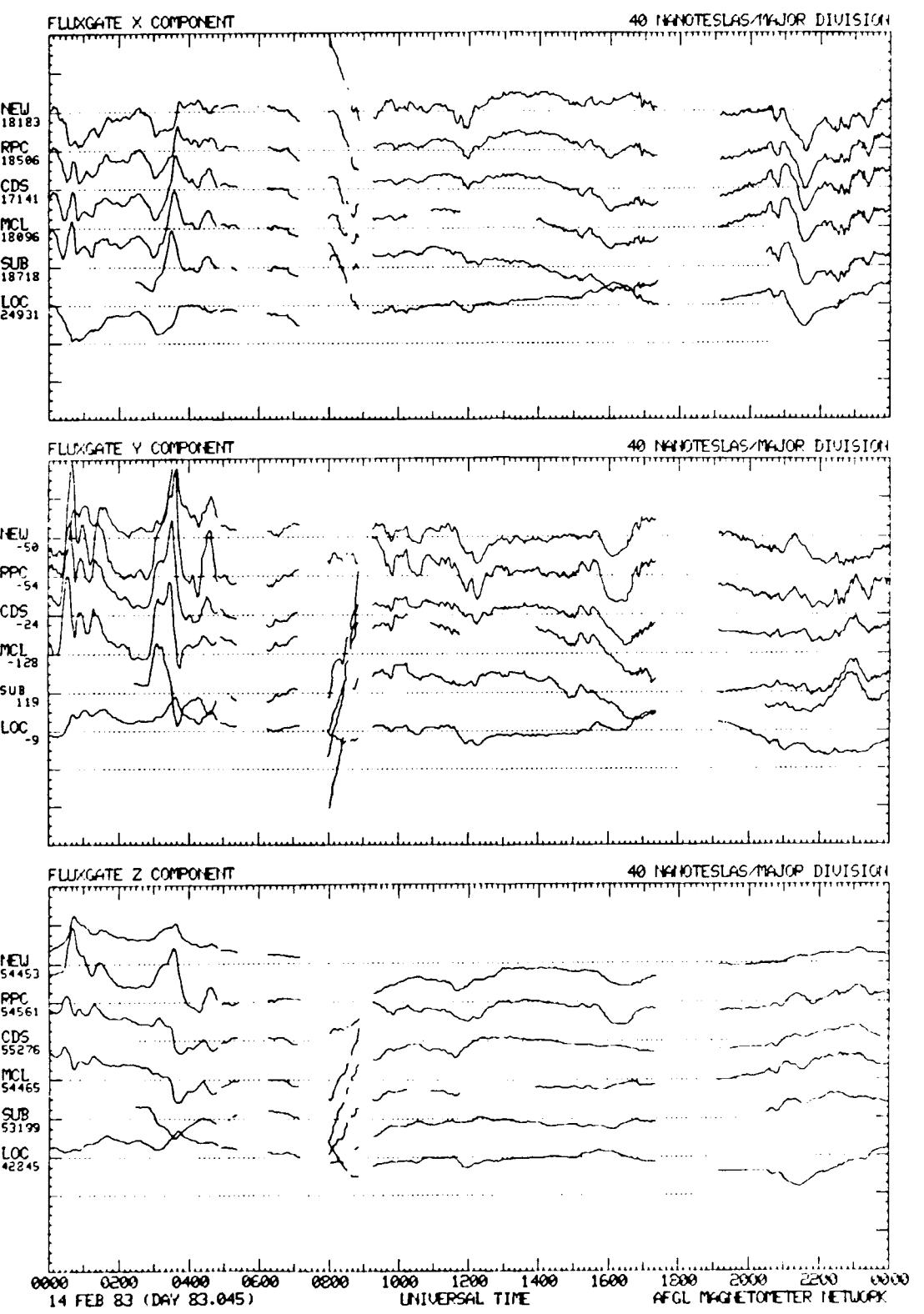
NEU
54458
RPC
54569
CDS
55293
MCL
54489
SUB
53198
LOC
42837

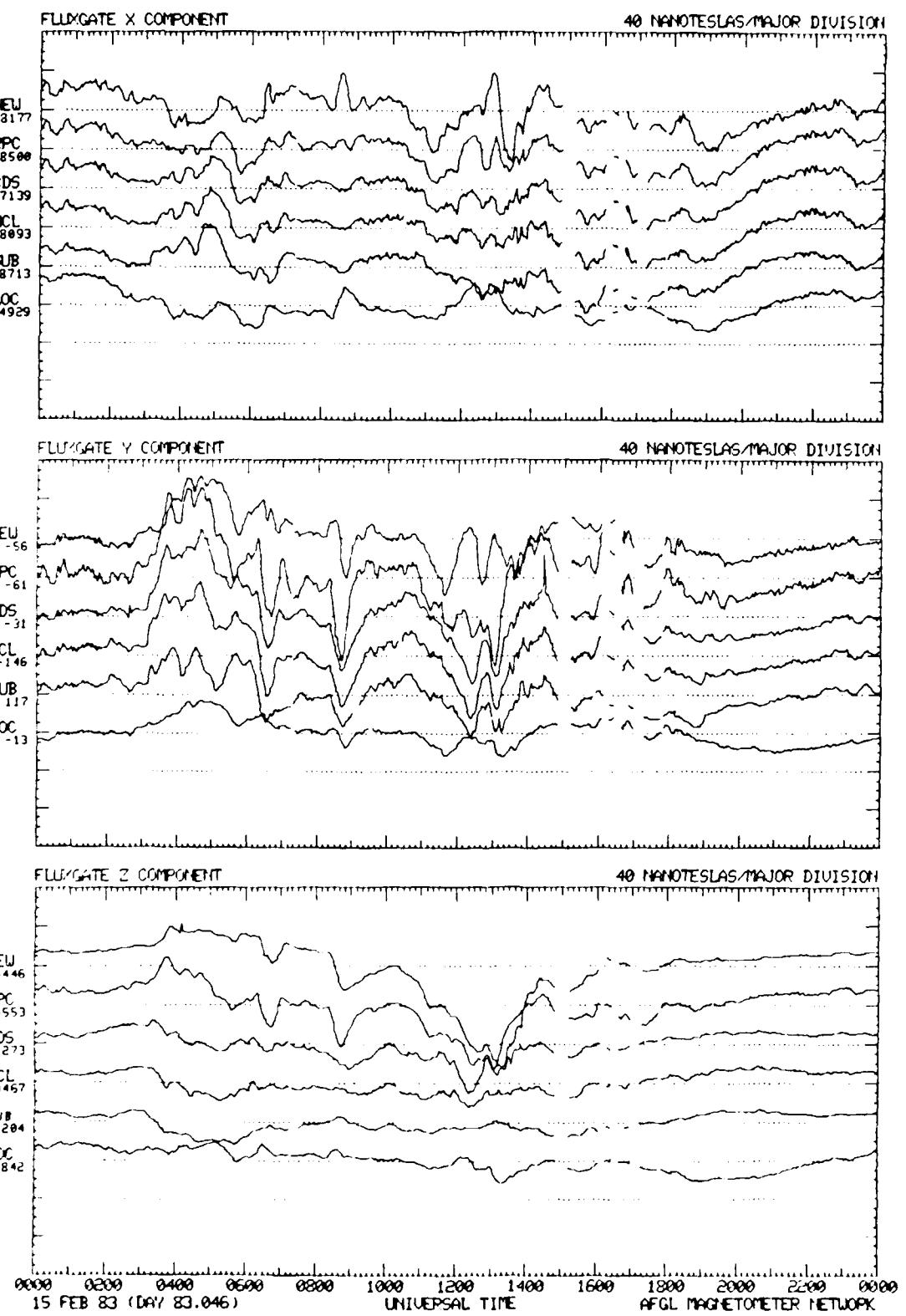


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 FEB 83 (DAY 83.044)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

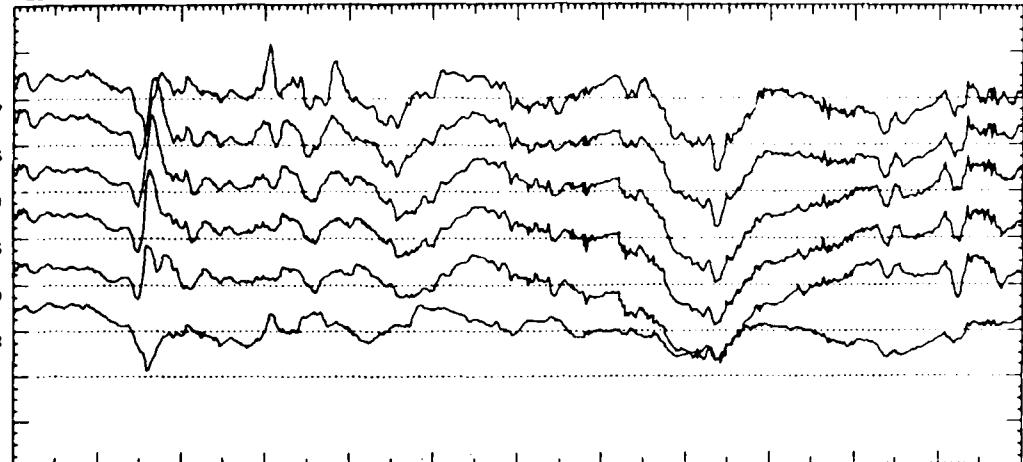




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

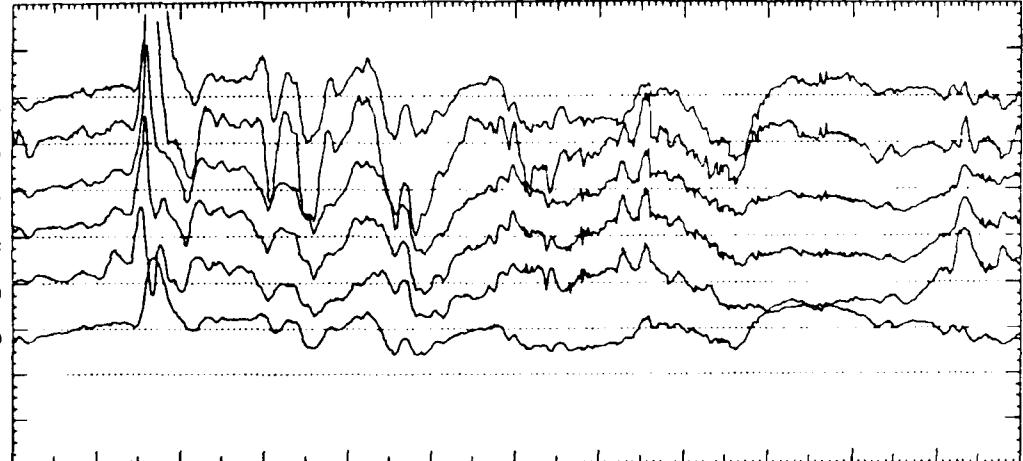
NEW
18177
RPC
18496
CDS
17139
MCL
18086
SUB
18710
LOC
24928



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

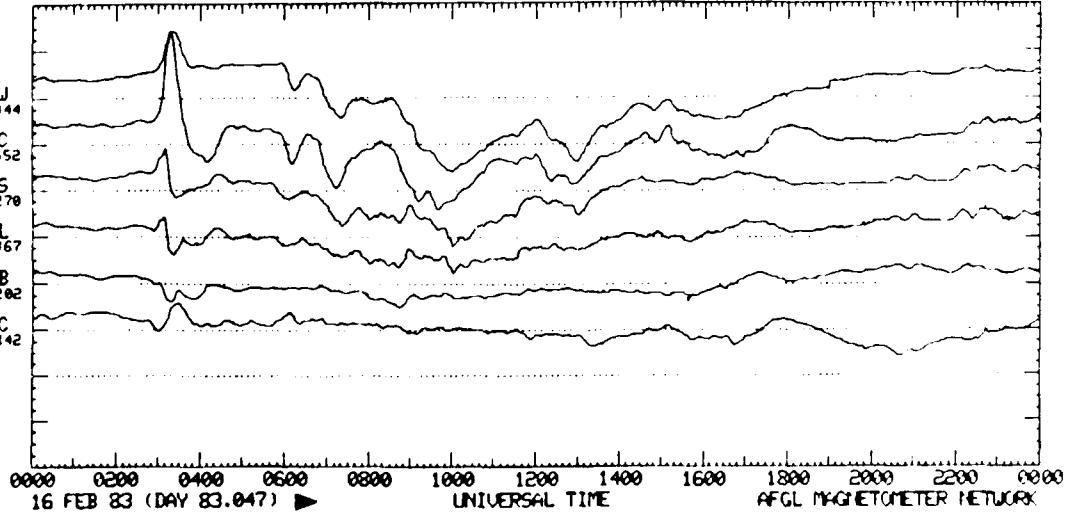
NEW
-55
RPC
-59
CDS
-32
MCL
-148
SUB
119
LOC
-9



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

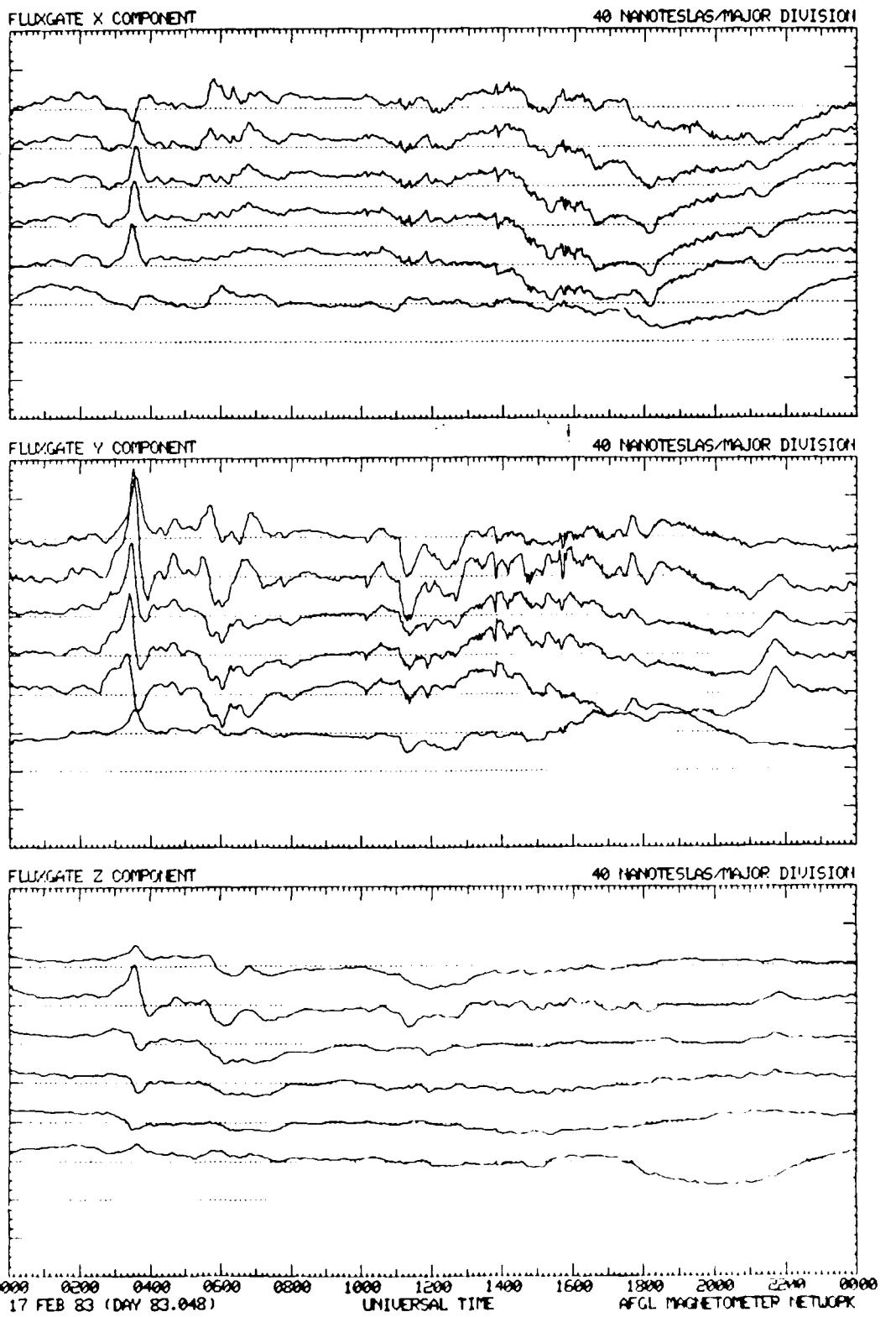
NEW
5444
RPC
54552
CDS
55270
MCL
54467
SUB
53262
LOC
42842

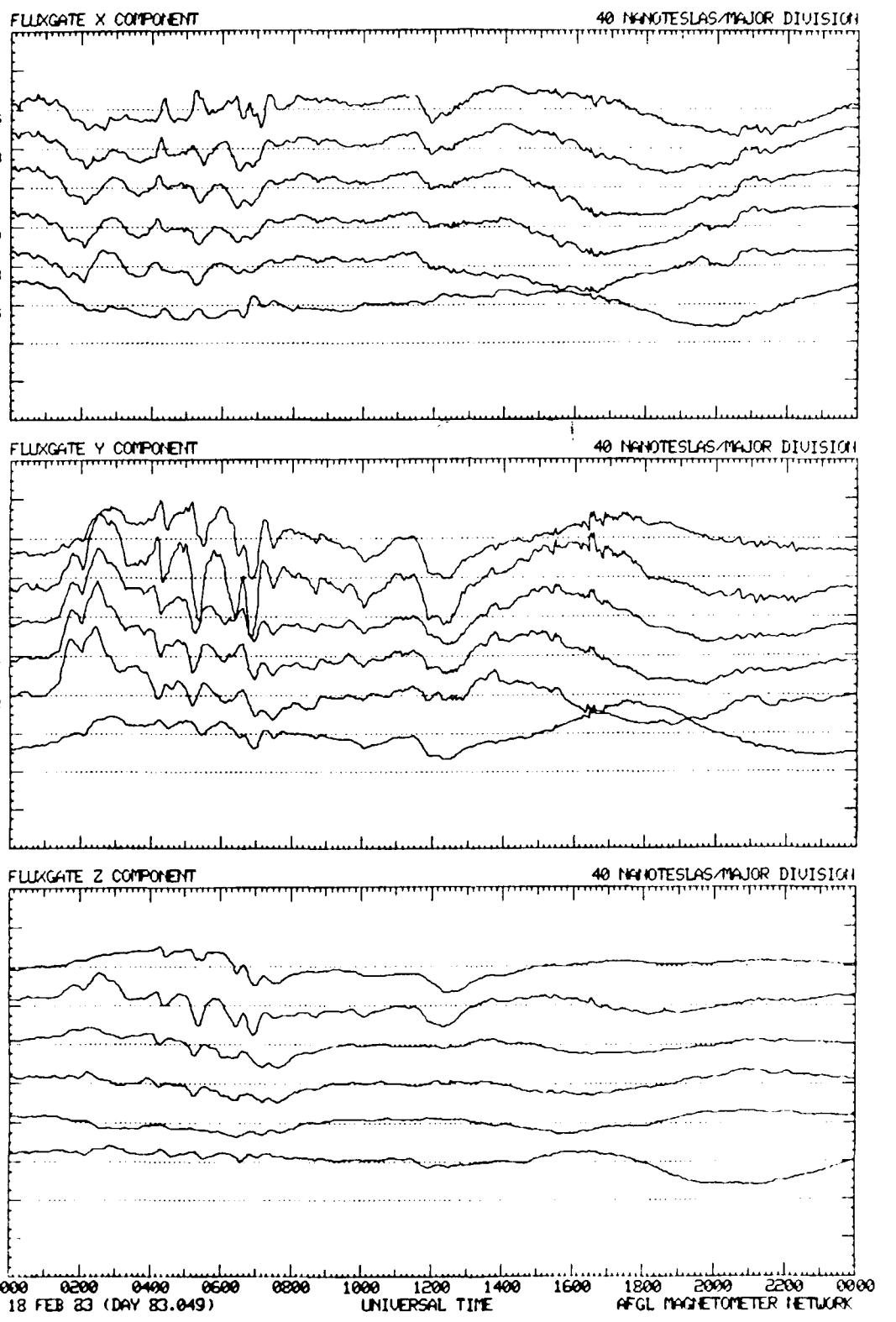


16 FEB 83 (DAY 83.047) ►

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

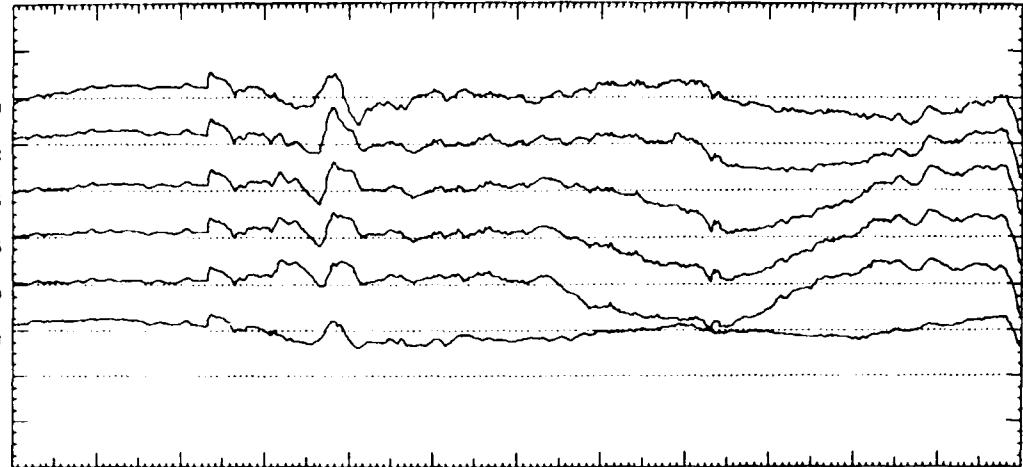




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

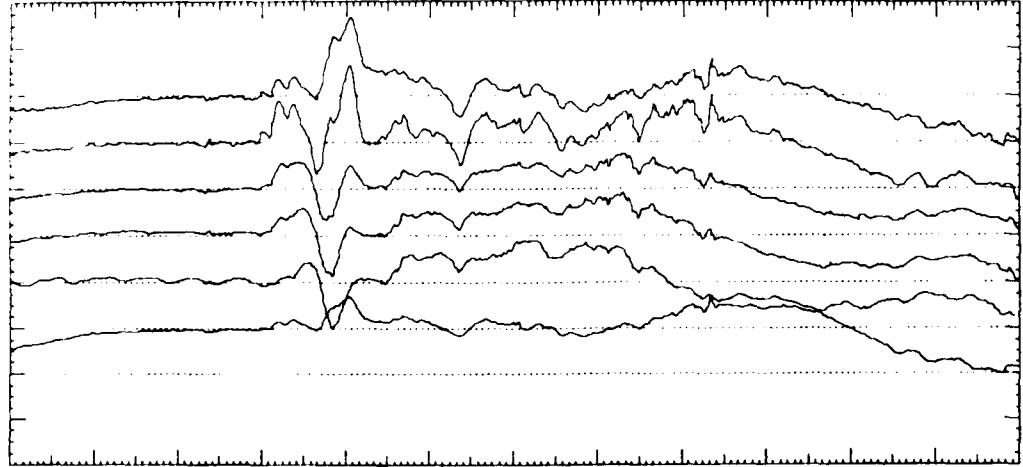
NEW
13194
RPC
18522
CDS
17166
MCL
18106
SUB
18730
LOC
24948



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

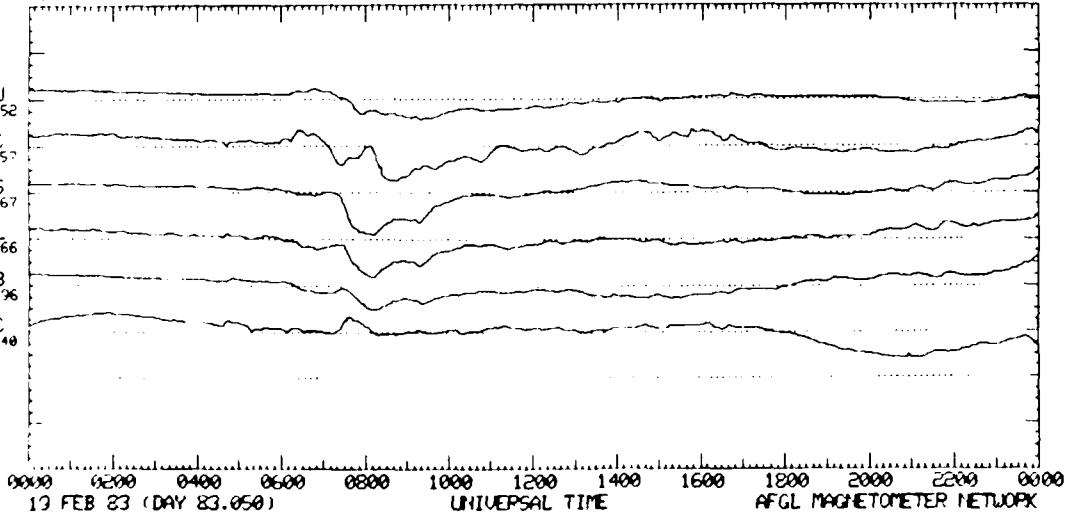
NEW
-50
PPC
-55
CDS
-32
MCL
-143
SUB
12
LOC
-8



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

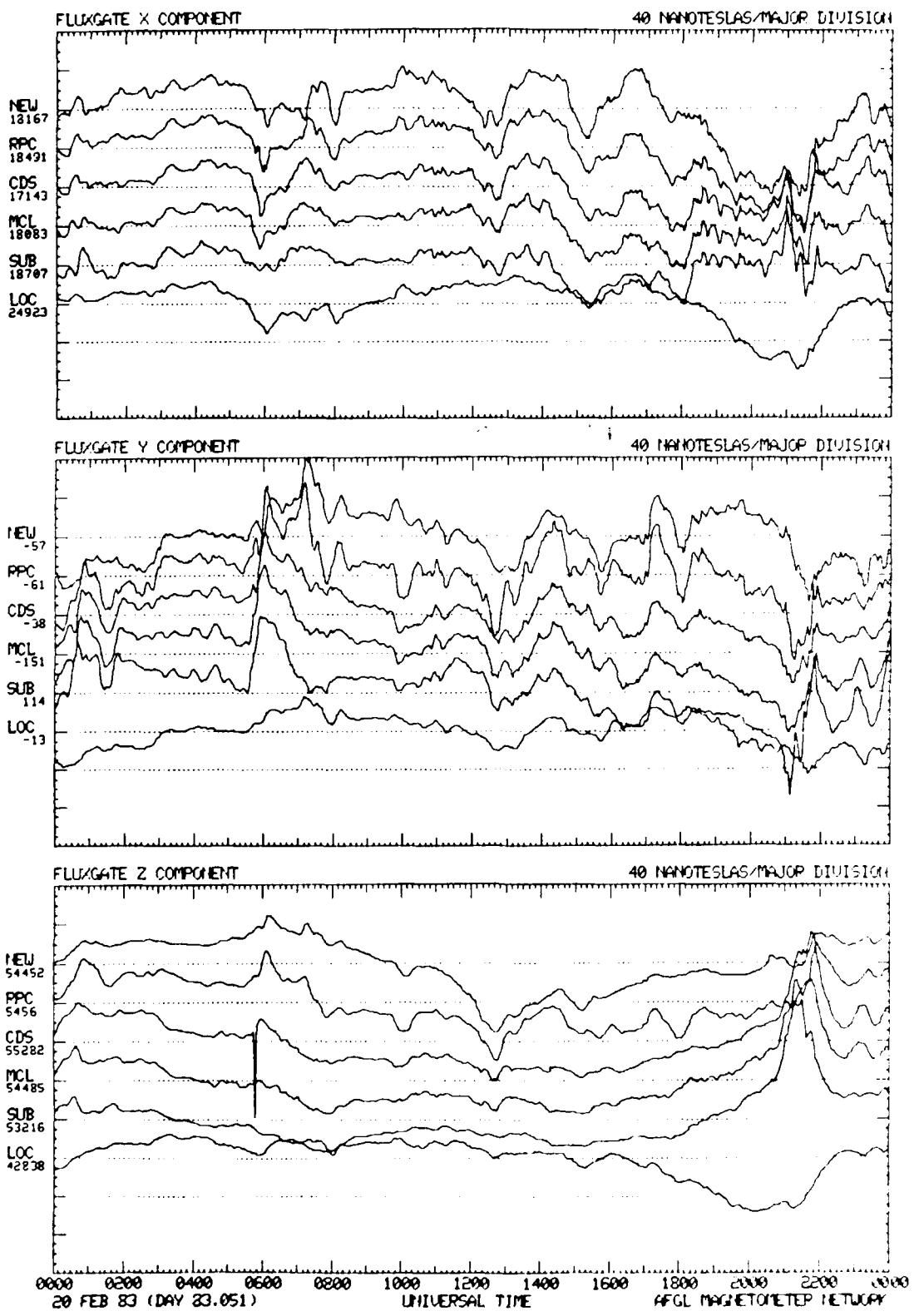
NEW
54452
PPC
54557
CDS
55267
MCL
54466
SUB
53196
LOC
4c840

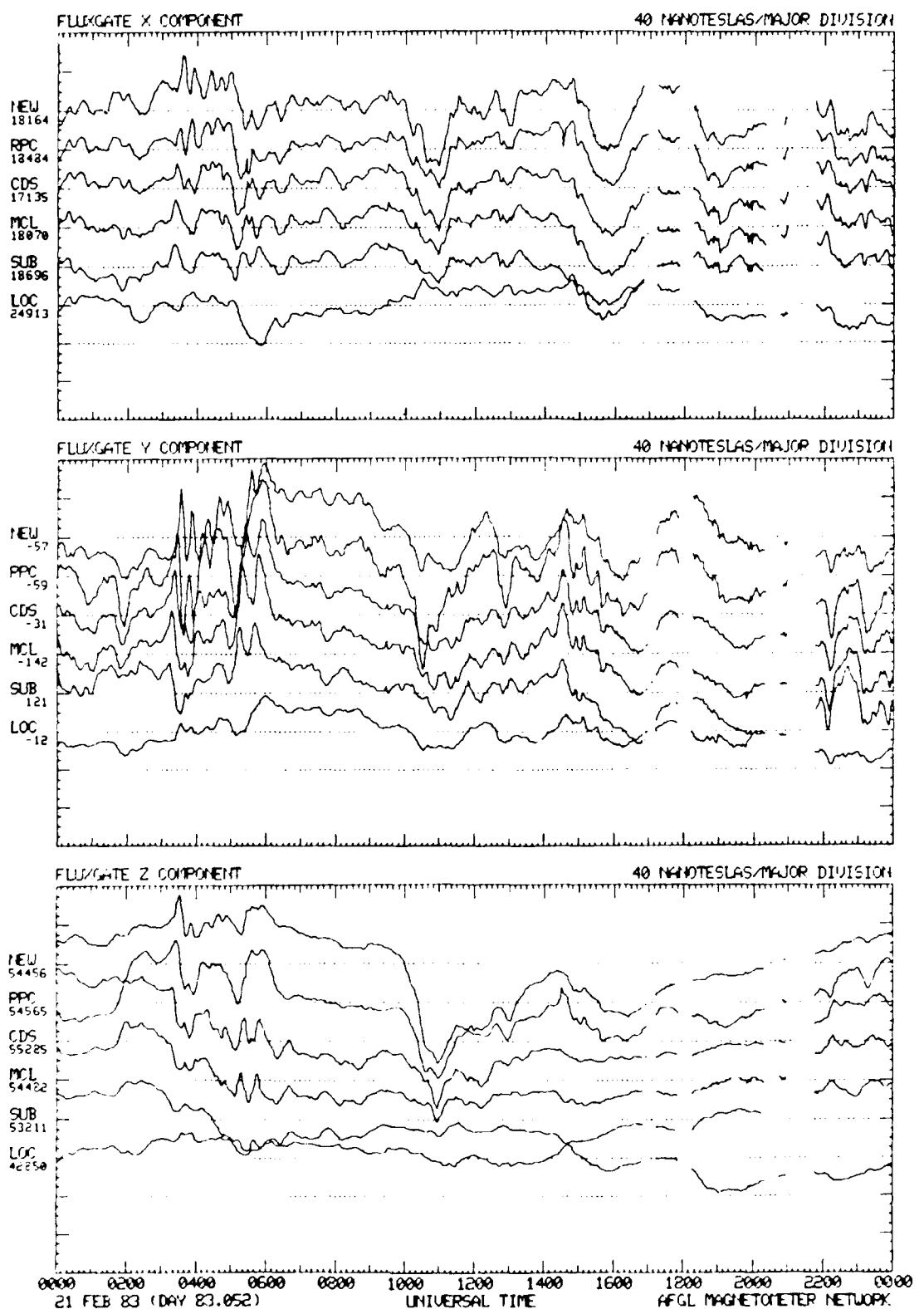


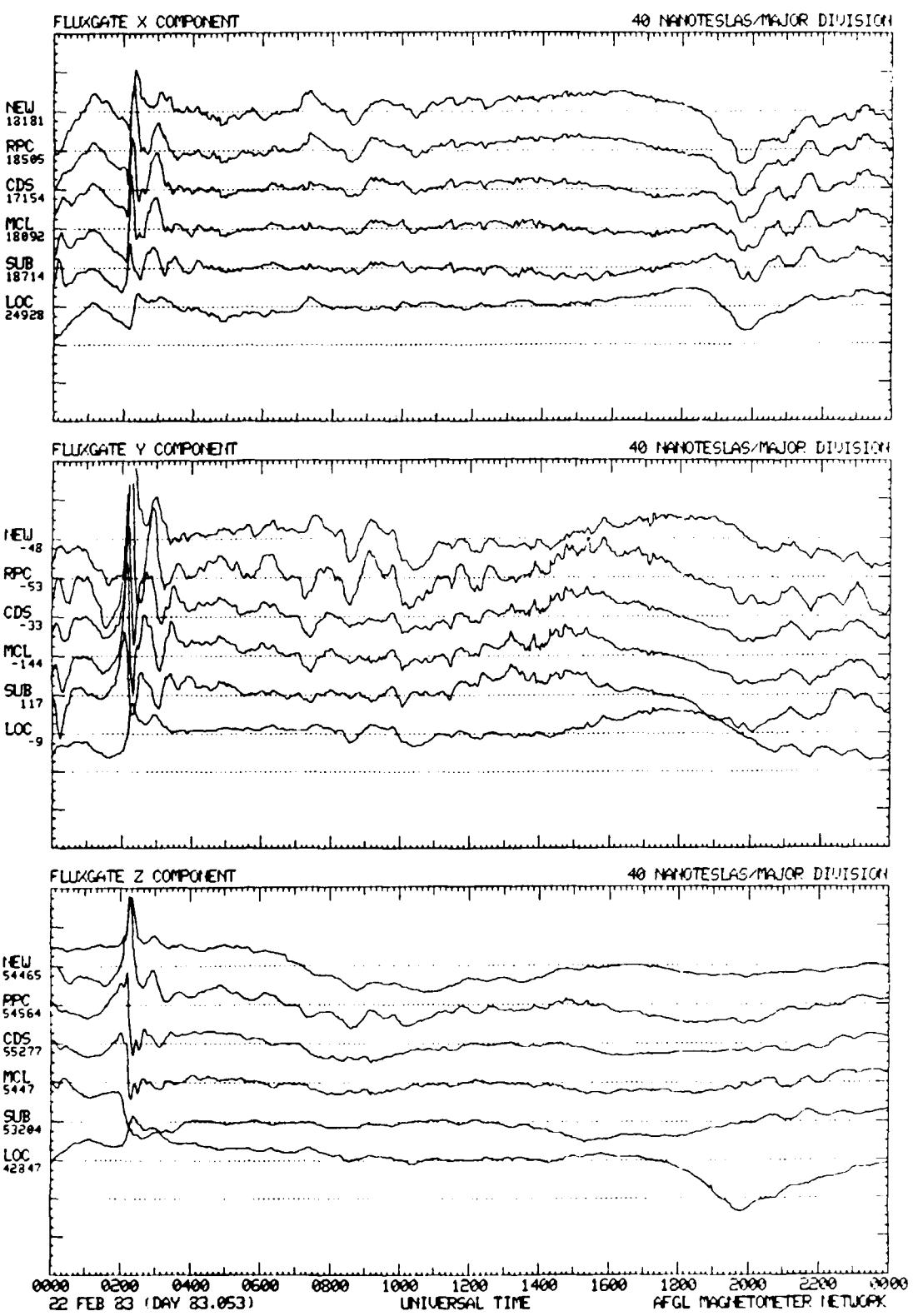
19 FEB 23 (DAY 83.050)

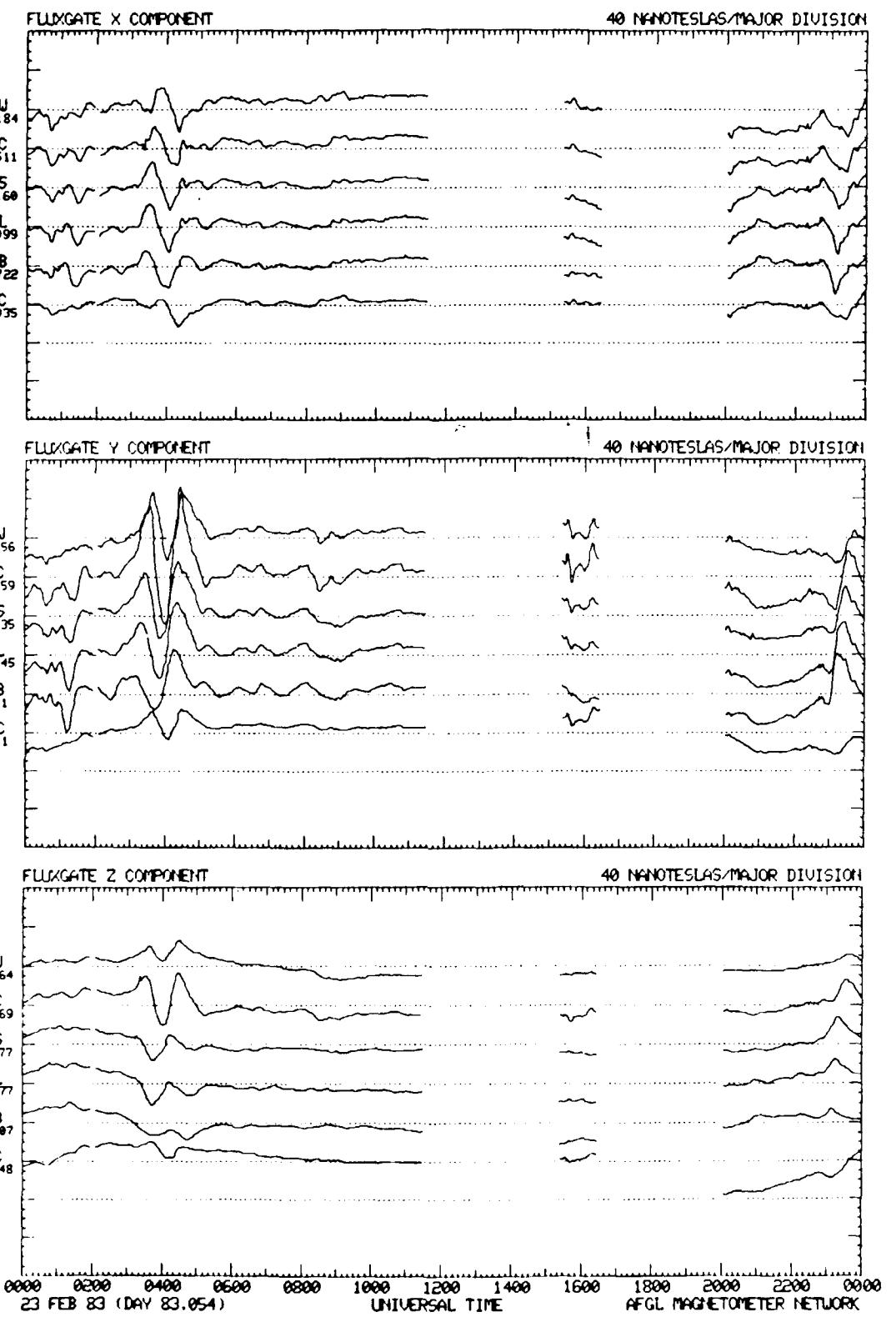
UNIVERSAL TIME

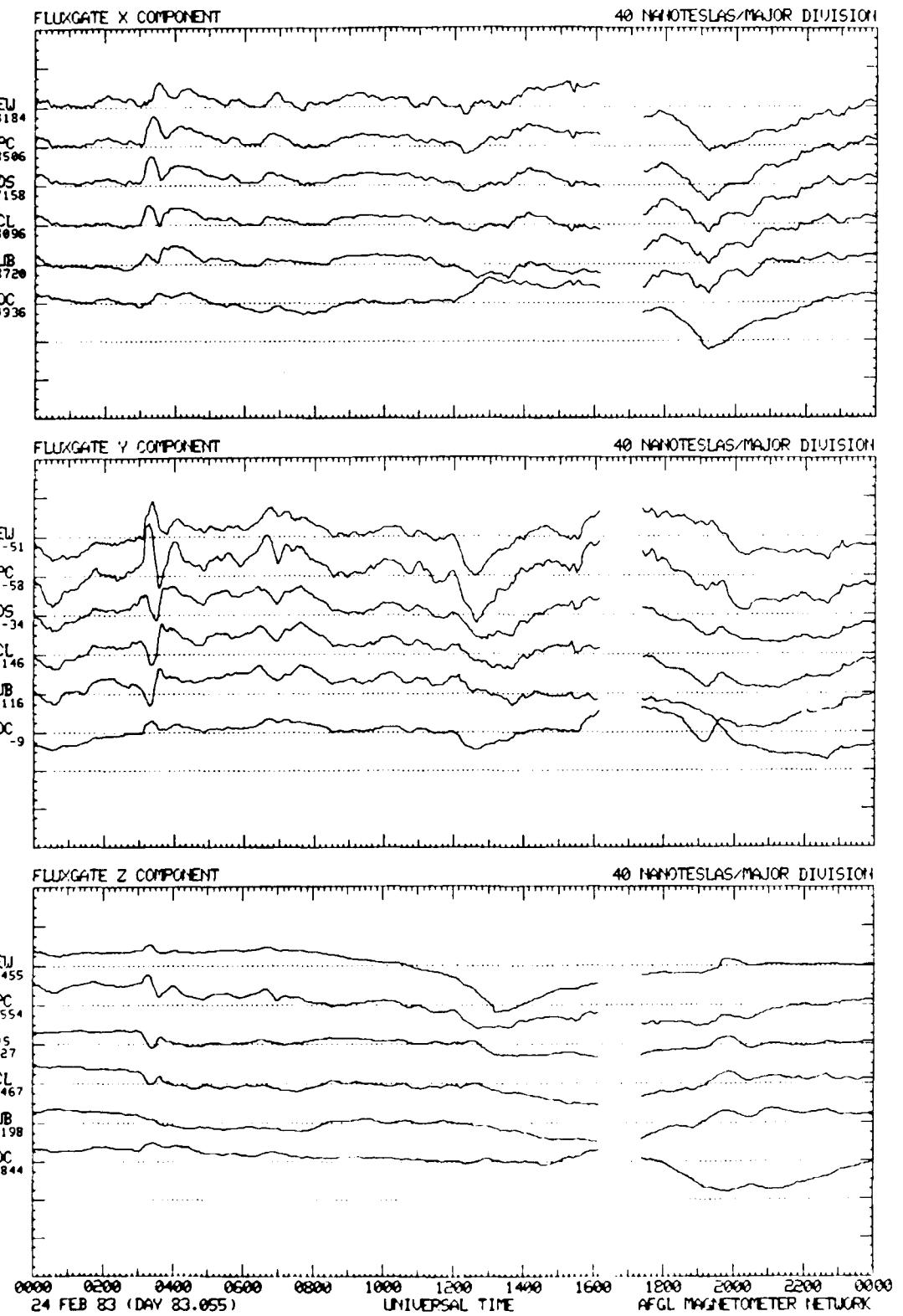
AFGL MAGNETOMETER NETWORK

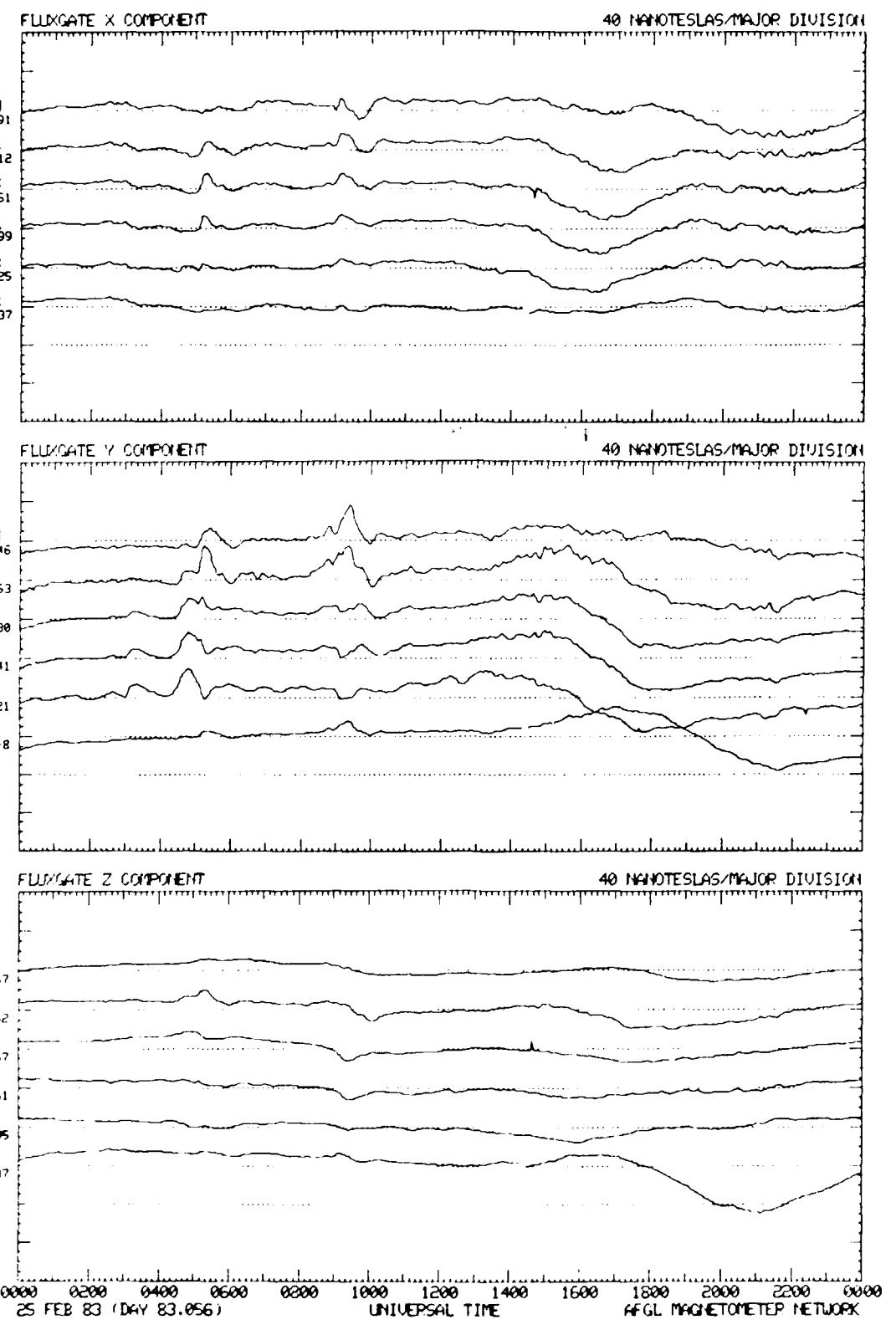


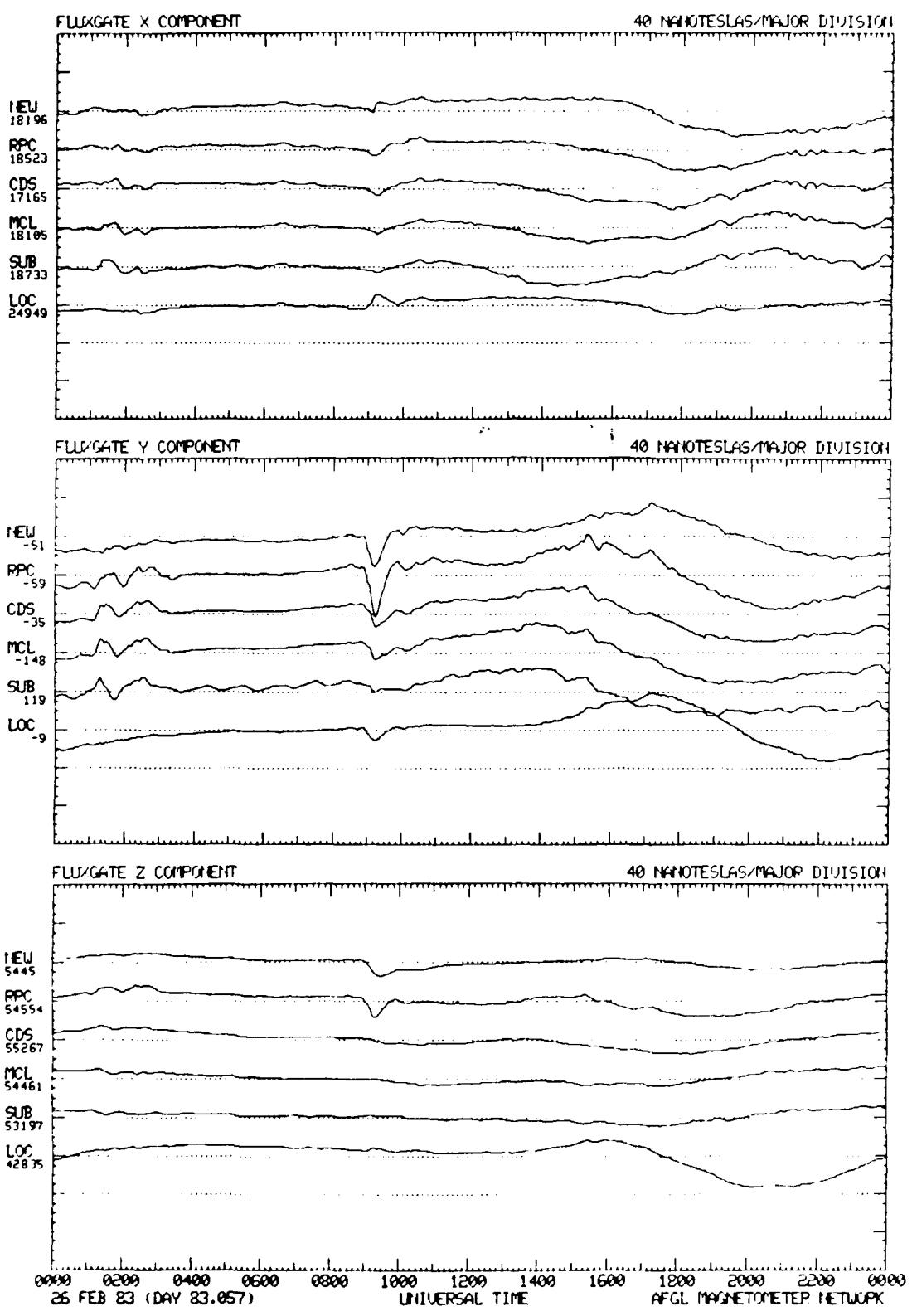








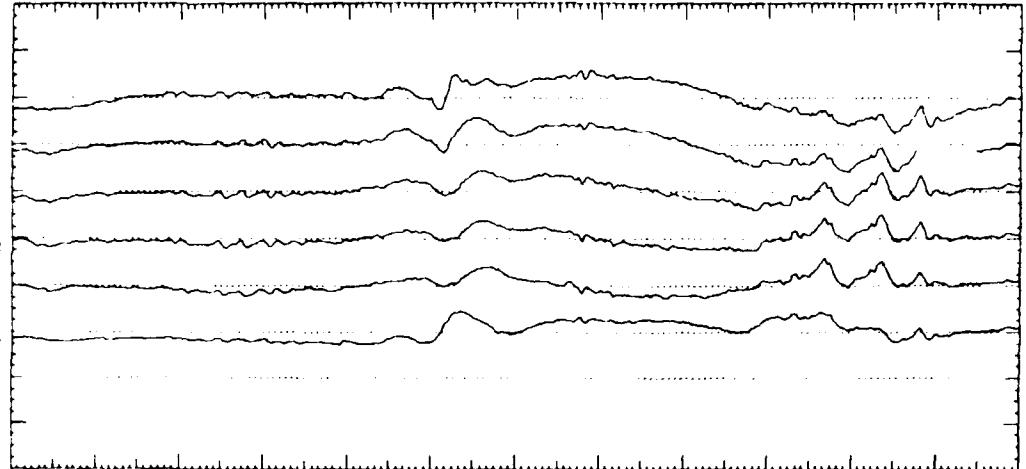




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

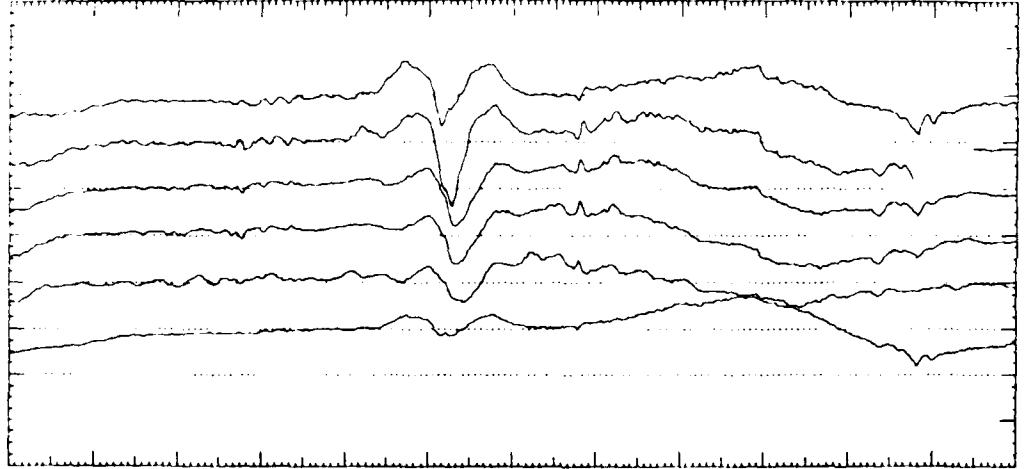
NEW
12201
RPC
18529
CDS
1717
MCL
18112
SUB
18737
LOC
24968



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-52
PPC
-57
CDS
-38
MCL
-147
SUB
121
LOC

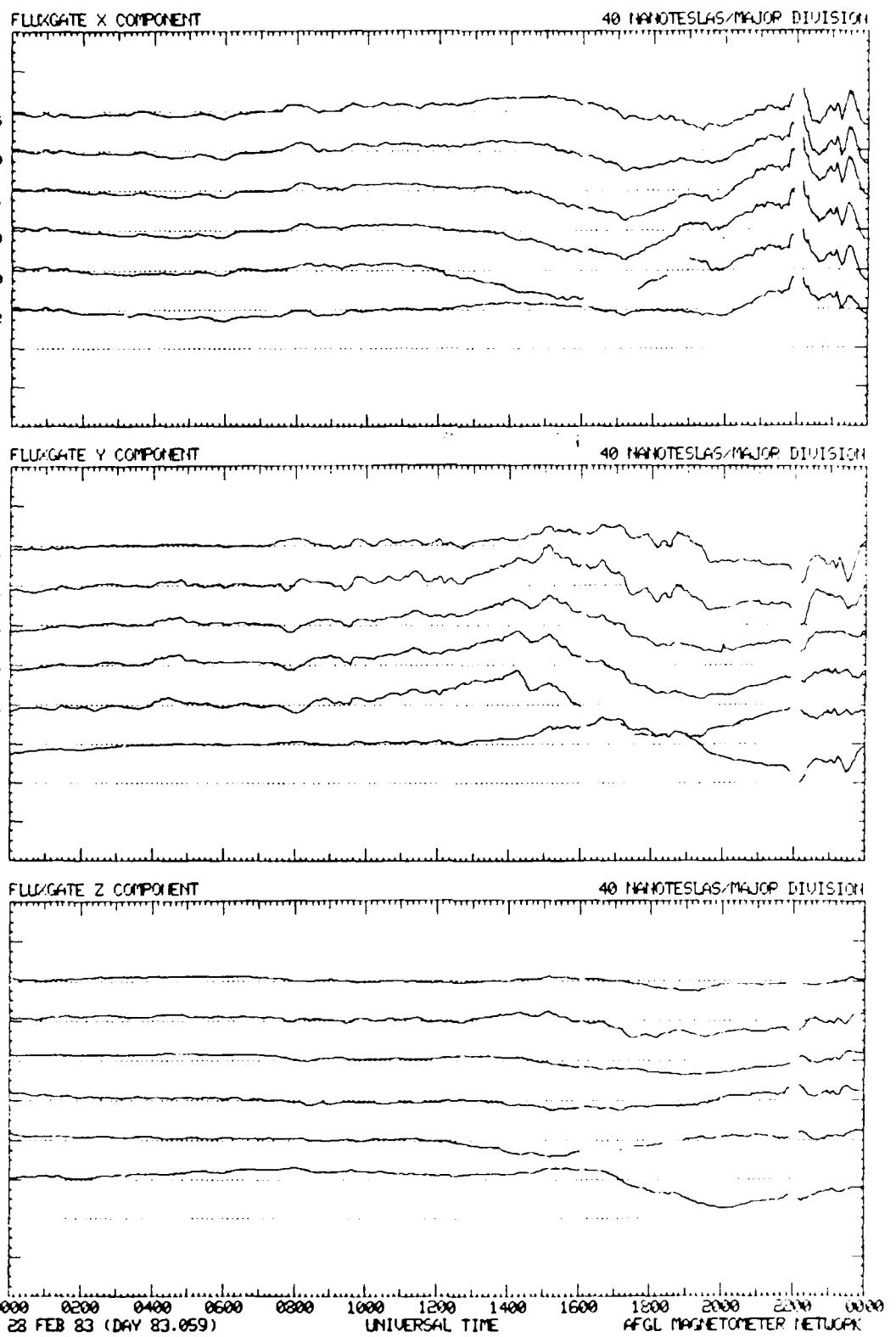


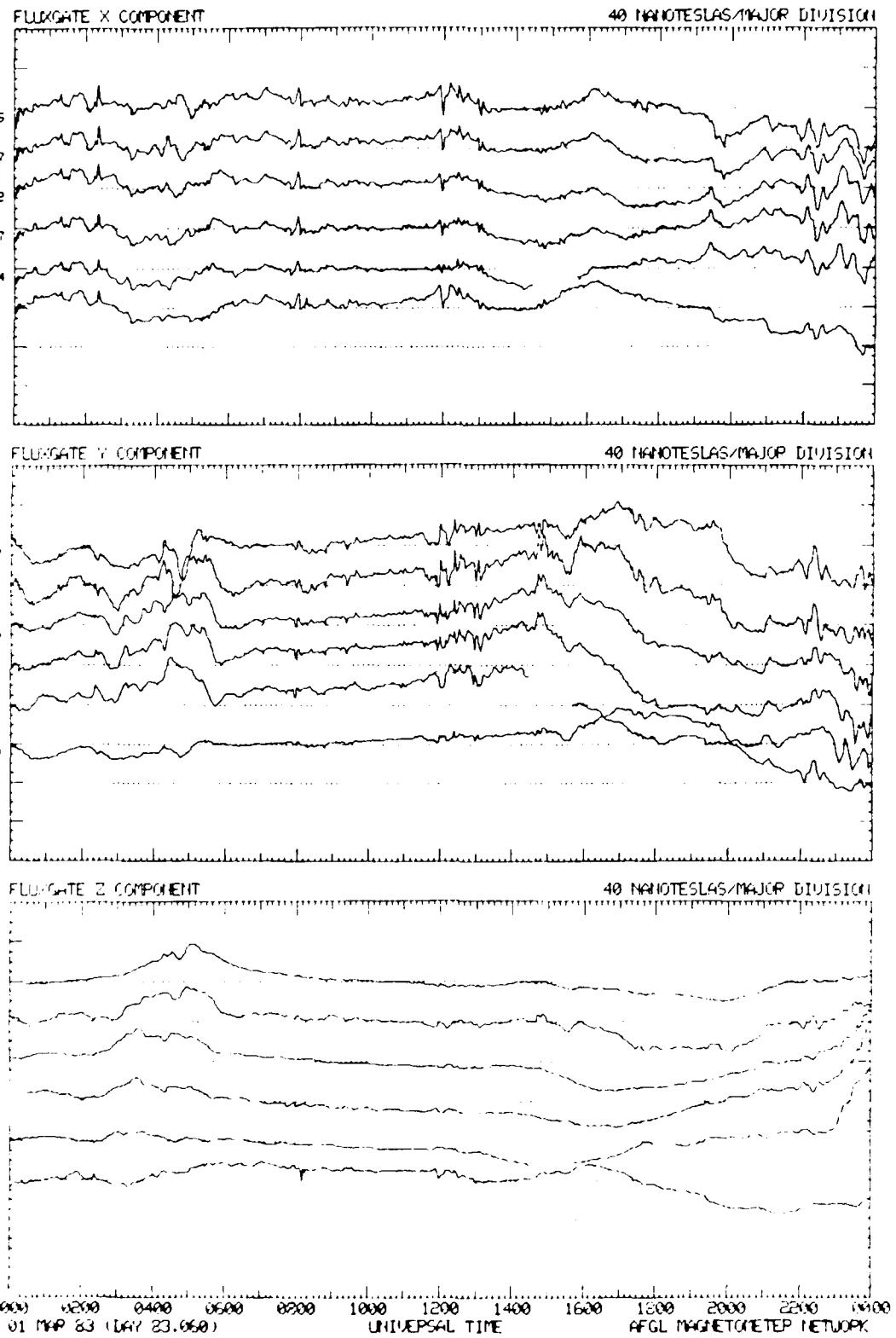
FLUXGATE Z COMPONENT

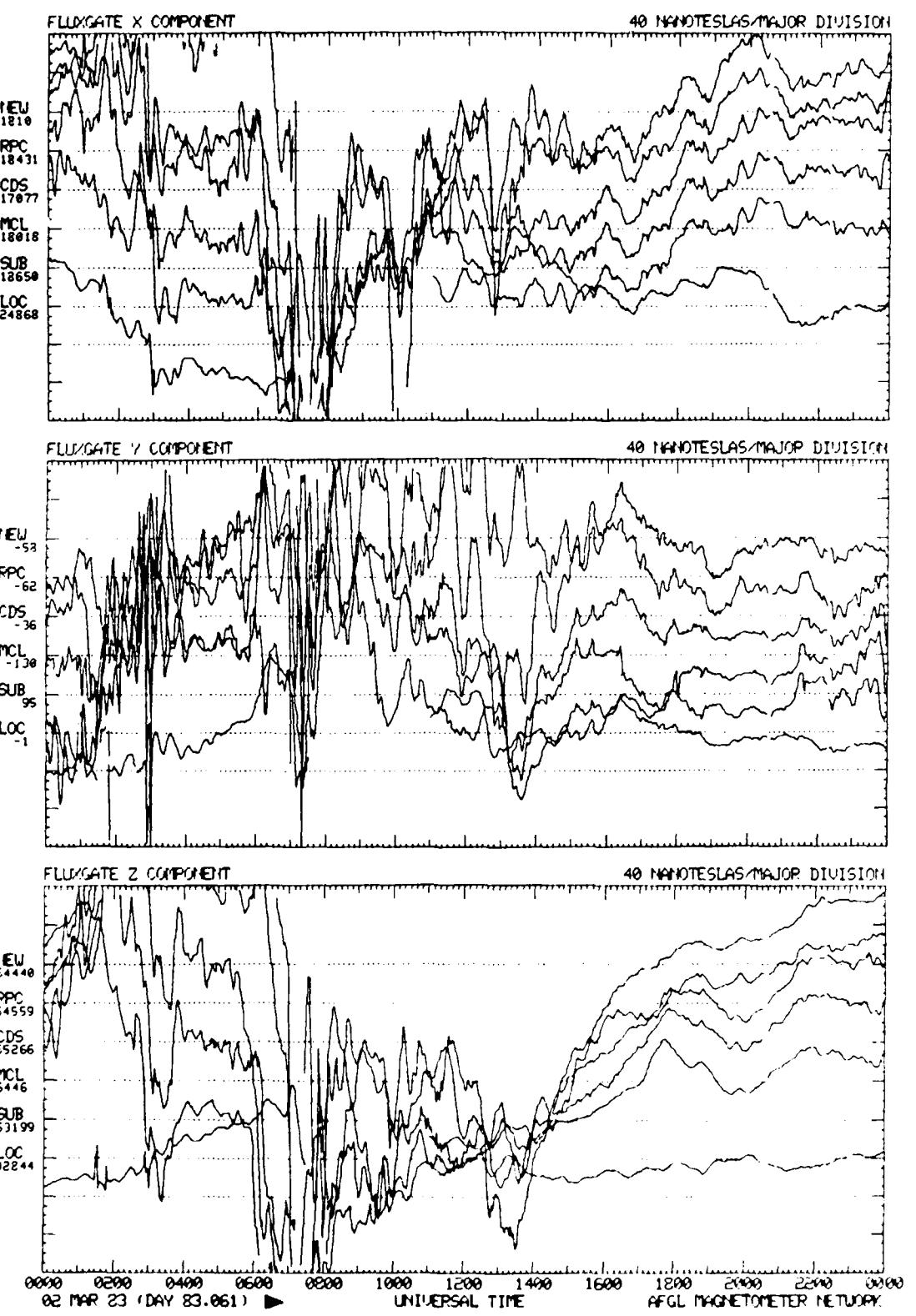
40 NANOTESLAS/MAJOR DIVISION

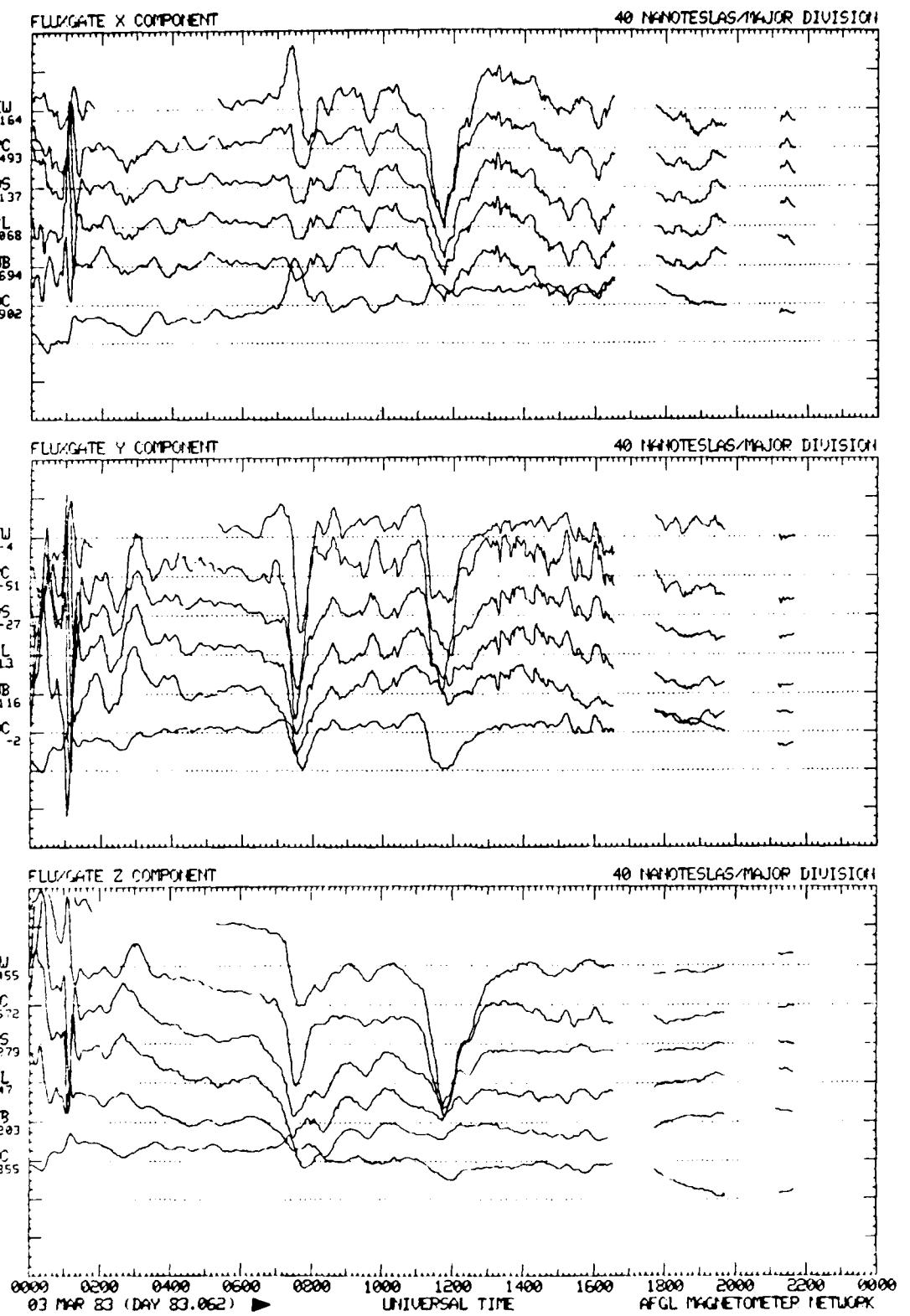
NEW
54449
PPC
54550
CDS
55265
MCL
54468
SUB
53195
LOC
42237

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 FEB 23 (DAY 83.058) UNIVERSAL TIME AFGL MAGNETOGRAM NETWORK





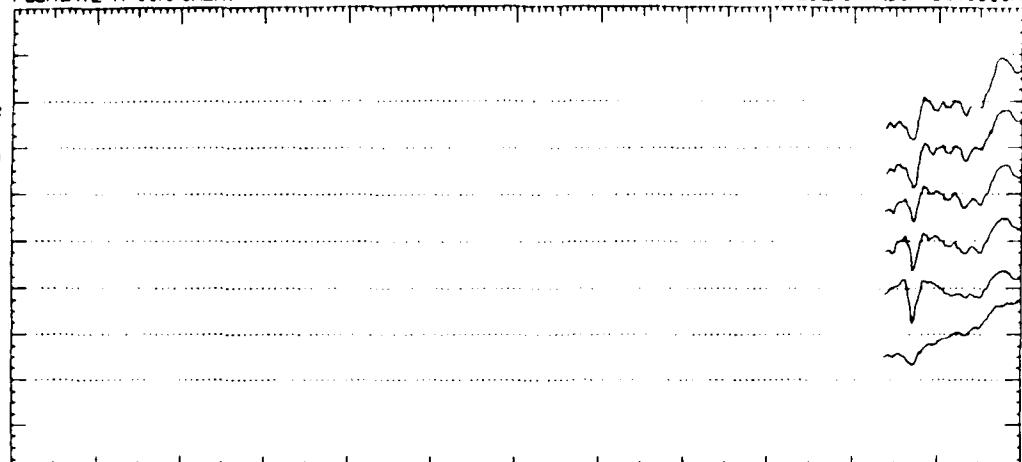




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

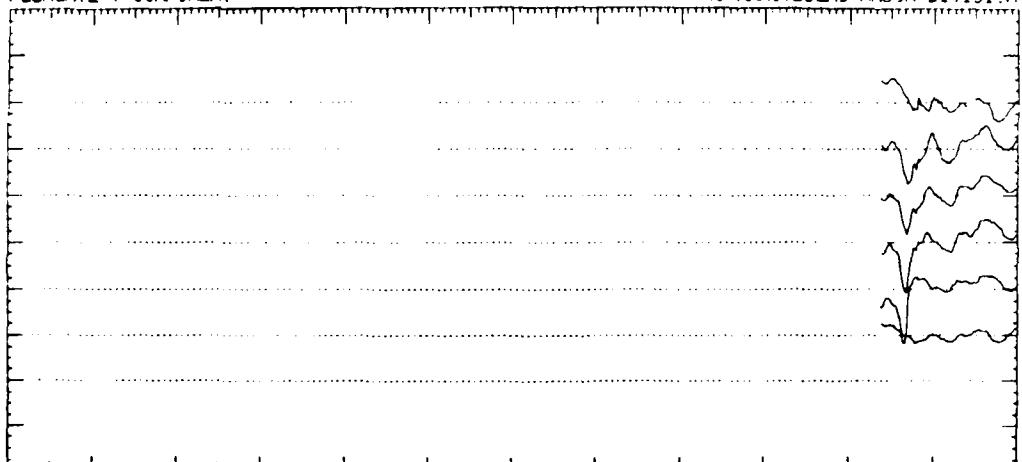
NEW
18138
RPC
18474
CDS
17146
MCL
1808
SUB
1871
LOC
24903



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

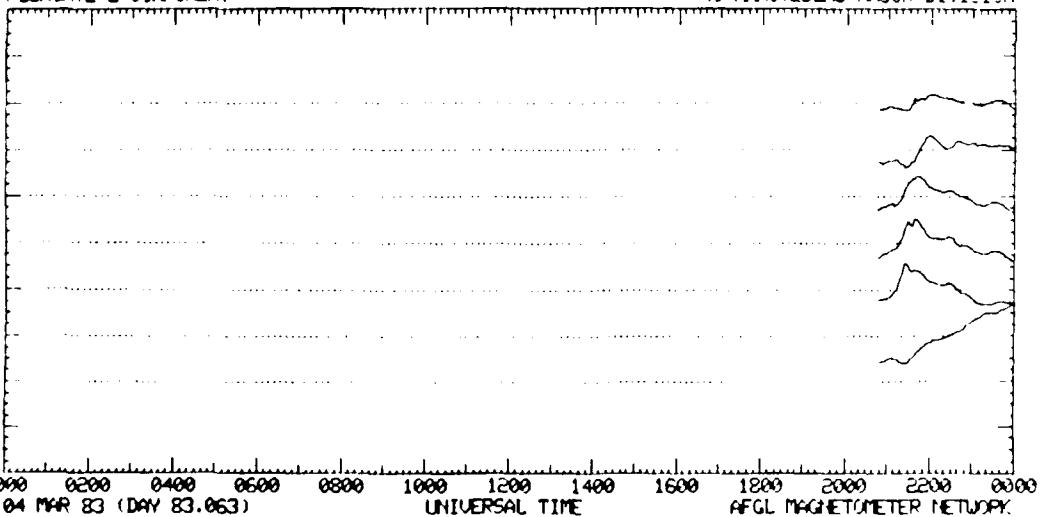
NEW
-74
RPC
-9
CDS
-69
MCL
-18
SUB
87
LOC
-30



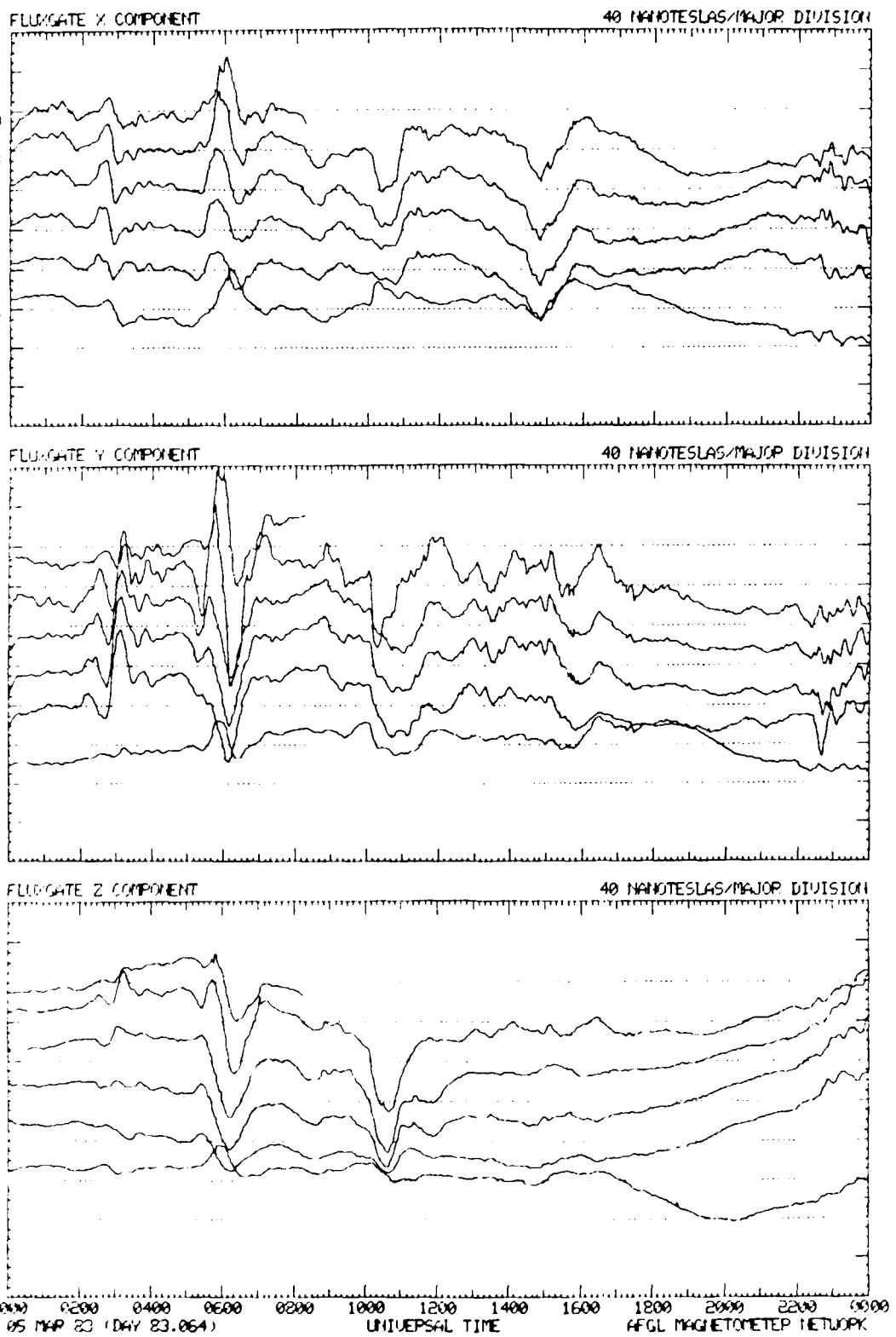
FLUXGATE Z COMPONENT

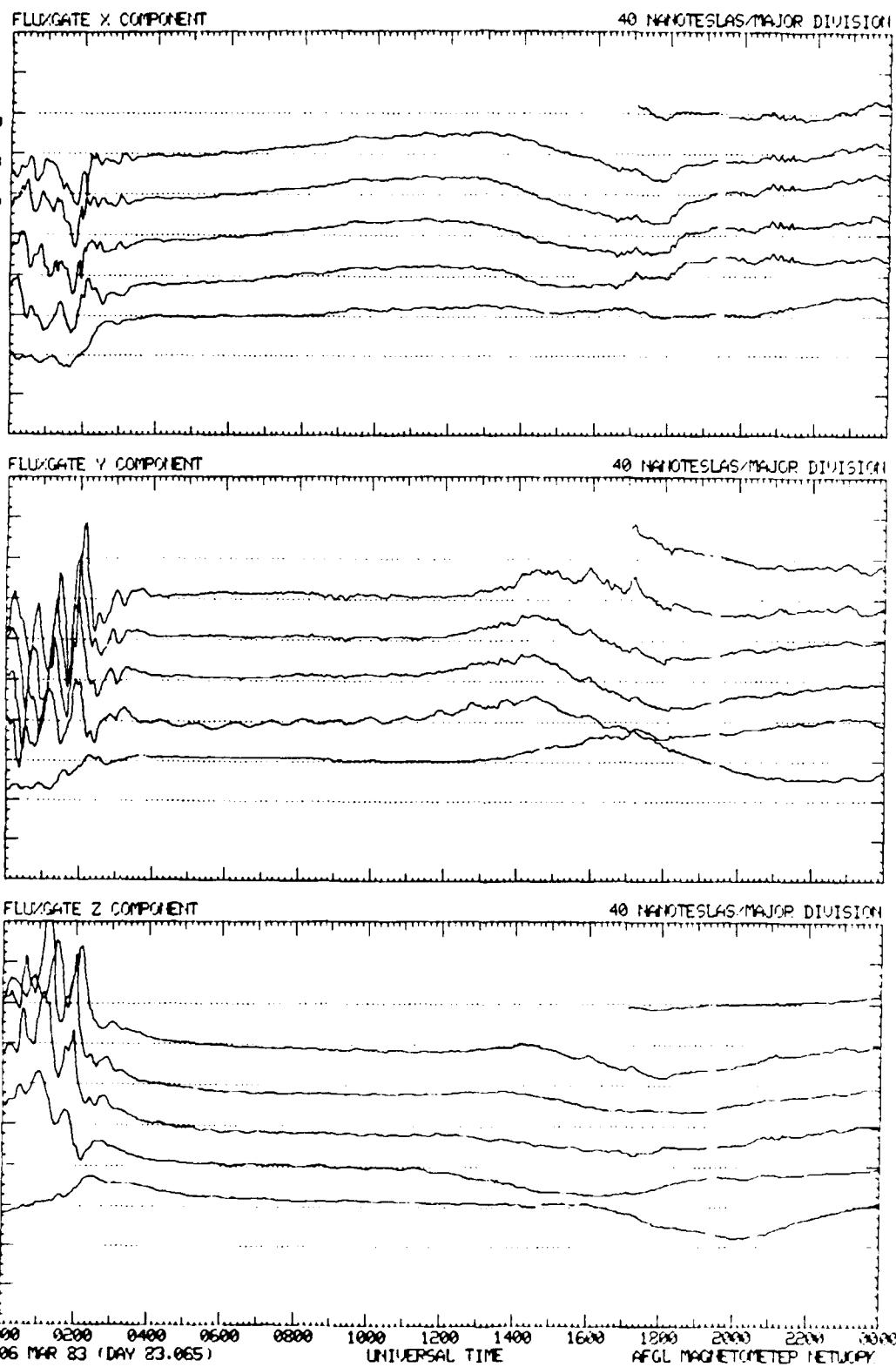
40 NANOTESLAS/MAJOR DIVISION

NEW
54472
RPC
54565
CDS
55297
MCL
54594
SUB
53234
LOC
42824



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 MAR 83 (DAY 83.063) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18191
RPC
18912
CDS
17174
MCL
18103
SUB
18723
LOC
24933

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-52
RPC
-60
CDS
-27
MCL
-139
SUB
126
LOC
6

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54459
RPC
54557
CDS
55272
MCL
54467
SUB
53197
LOC
42853

0800 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 MAR 83 (DAY 83.066) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18191
RPC
18512
CDS
17174
MCL
18103
SUB
18723
LOC
24933

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-52
RPC
-60
CDS
-27
MCL
-139
SUB
126
LOC
6

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54459
RPC
54557
CDS
55272
MCL
54467
SUB
53187
LOC
42853

08 MAR 83 (DAY 83.067)

UNIVERBAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18191
RPC
18512
CDS
17174
MCL
18103
SUB
18723
LOC
24933

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-52
RPC
-60
CDS
-27
MCL
-139
SUB
126
LOC
6

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54459
RPC
54557
CDS
55272
MCL
54467
SUB
53197
LOC
42853

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 MAR 83 (DAY 83.068) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18124
RPC
18507
CDS
17167
MCL
18114
SUB
18723
LOC
24953

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-57
RPC
-77
CDS
-53
MCL
-163
SUB
126
LOC
-10

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54454
RPC
54539
CDS
55260
MCL
54454
SUB
53197
LOC
42821

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
10 MAR 83 (DAY 23.069) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18139
RPC
18522
CDS
17176
MCL
18111
LOC
24954

SUB
18727

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

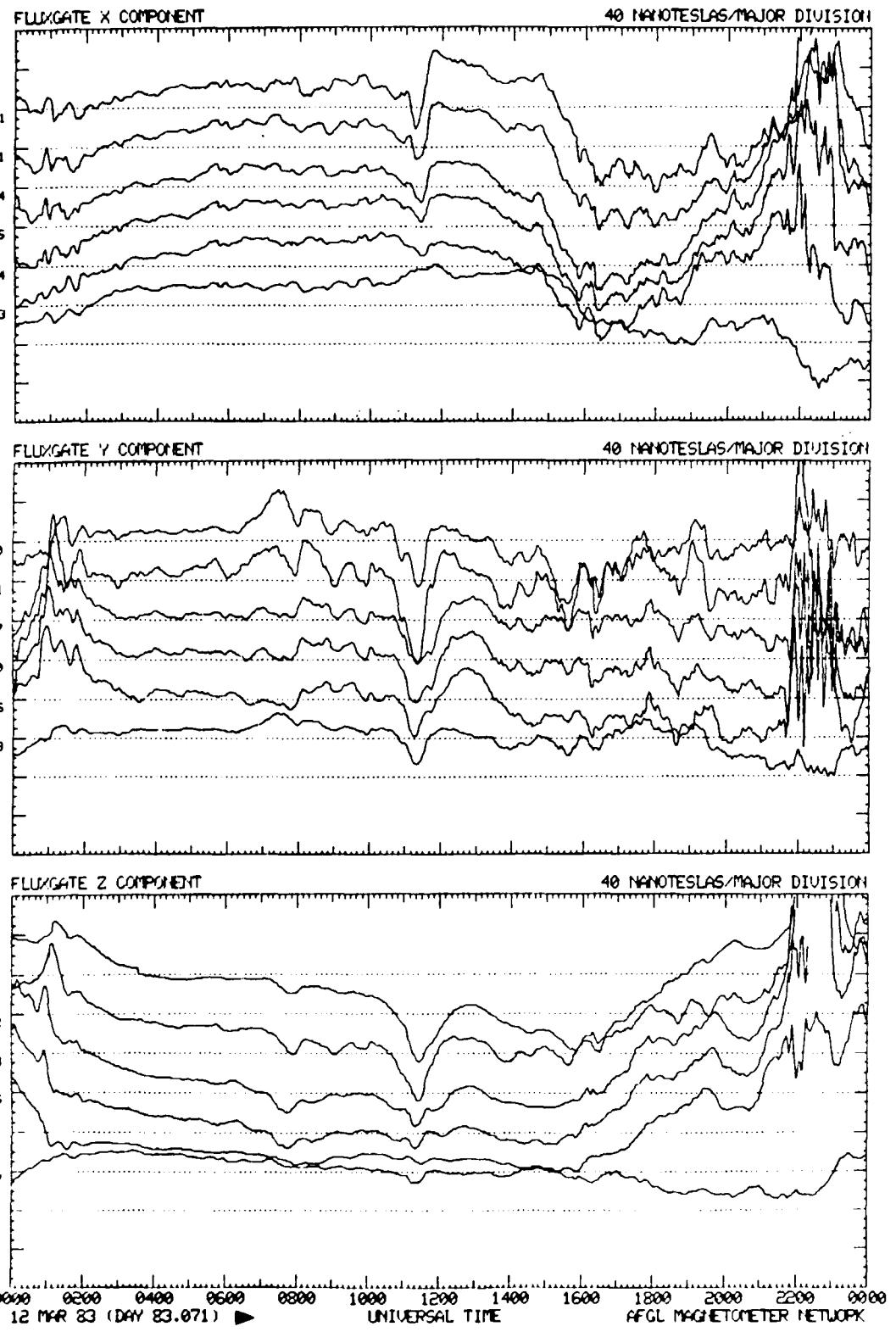
NEW
-57
RPC
-62
CDS
-38
MCL
-145
SUB
111
LOC
2

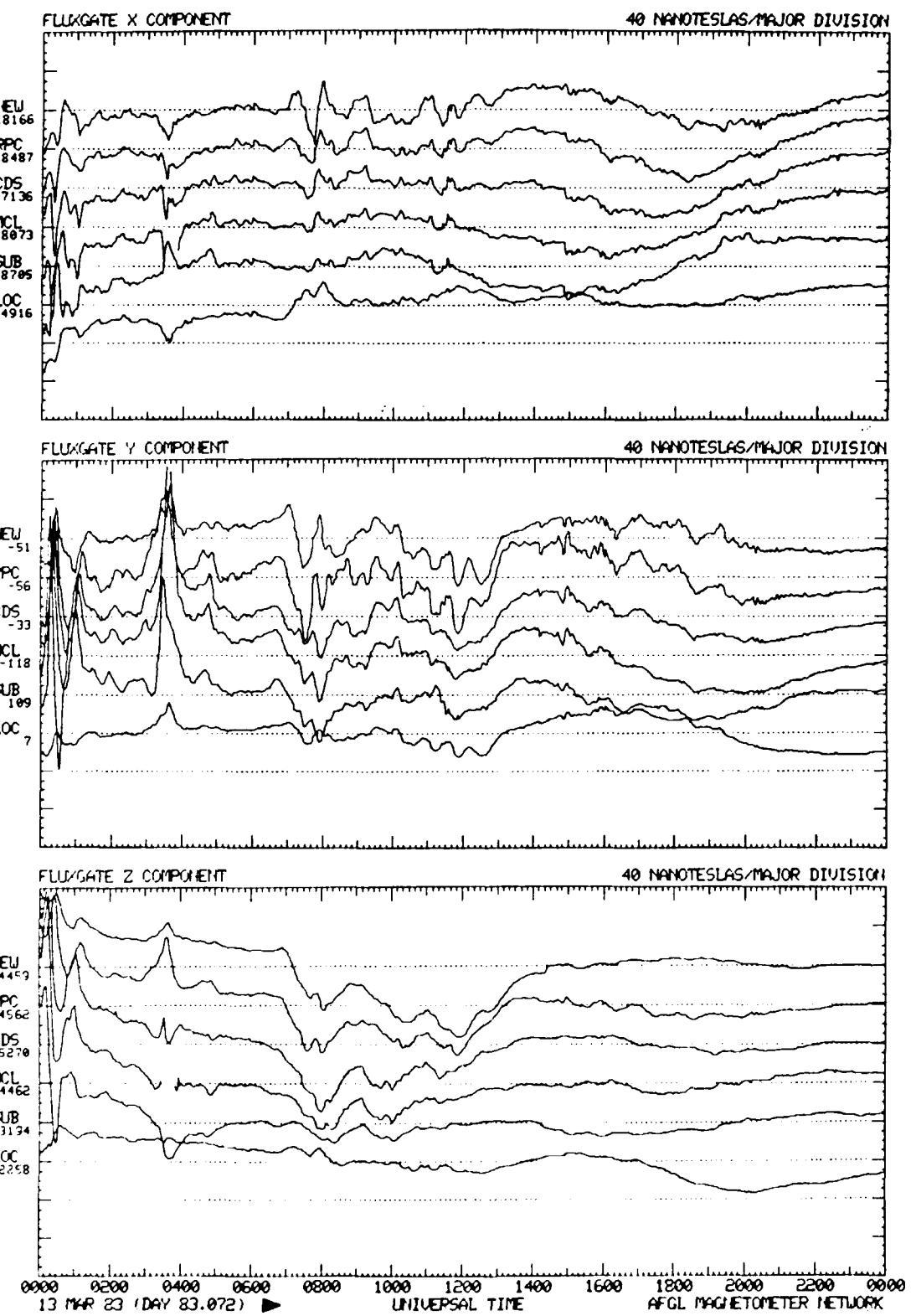
FLUXGATE Z COMPONENT

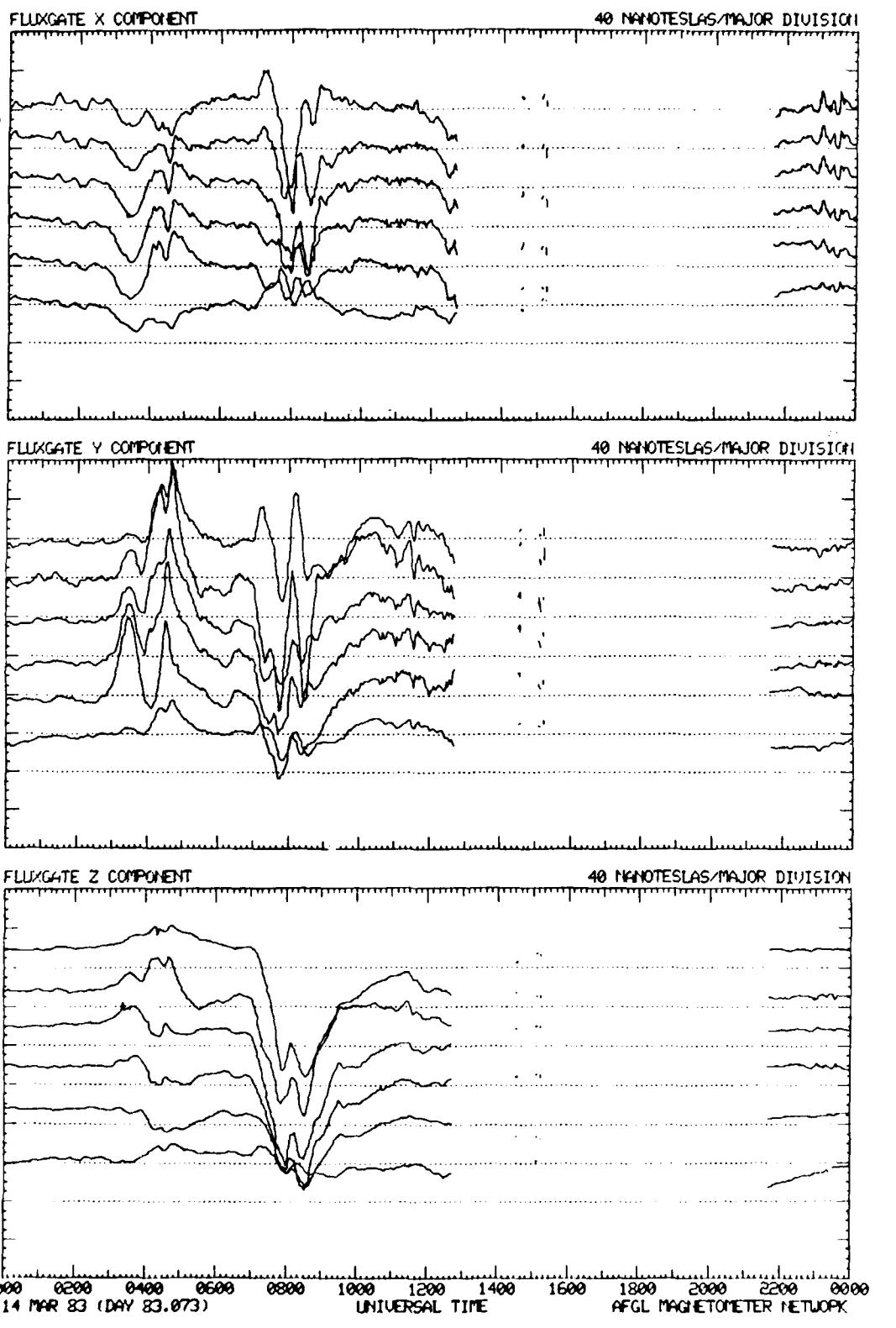
40 NANOTESLAS/MAJOR DIVISION

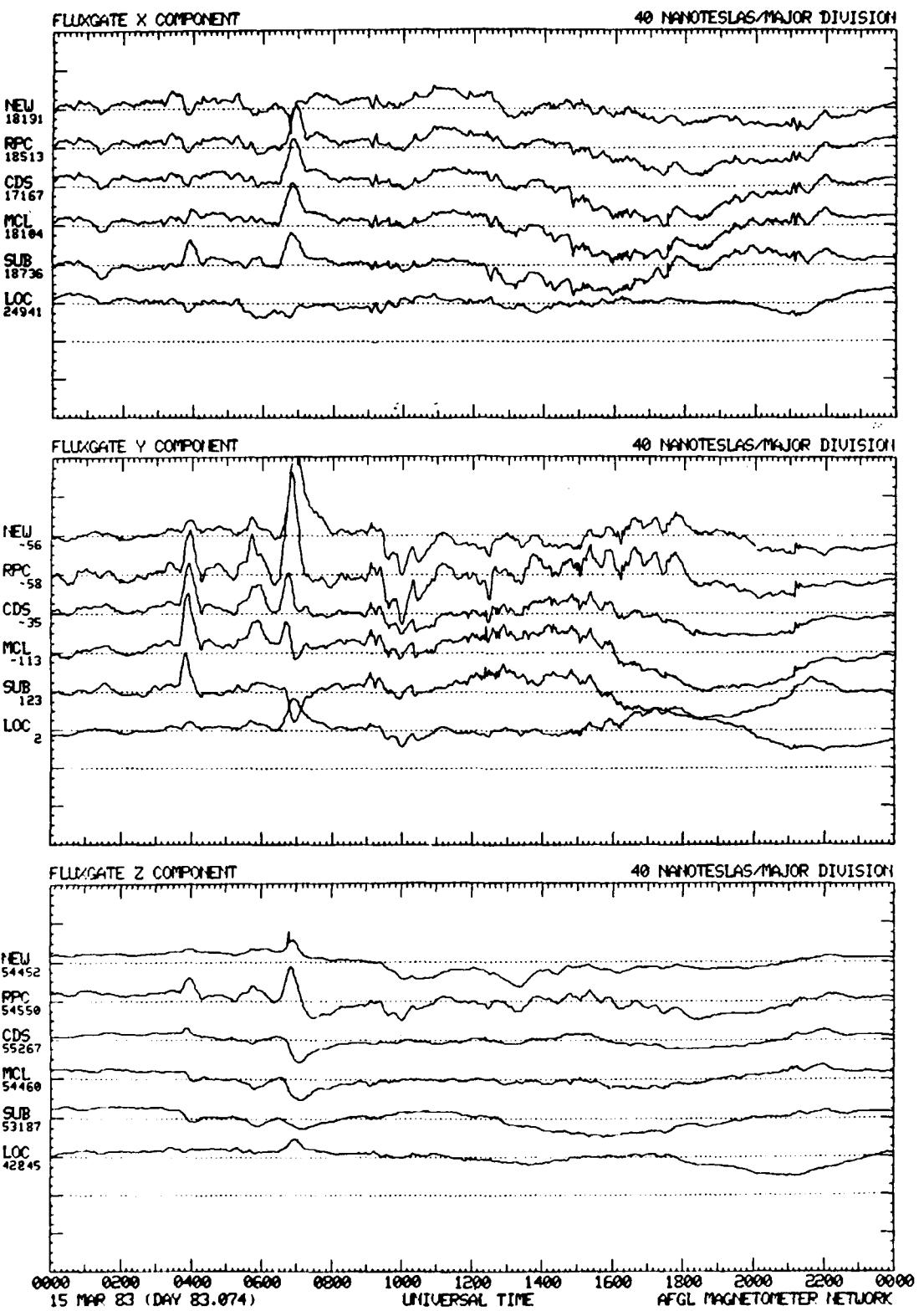
NEW
54448
RPC
54547
CDS
55267
MCL
54456
SUB
53202
LOC
42237

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 MAR 23 (DAY 83.070) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18196
RPC
18516
CDS
17169
MCL
18107
SUB
18738
LOC
24945

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

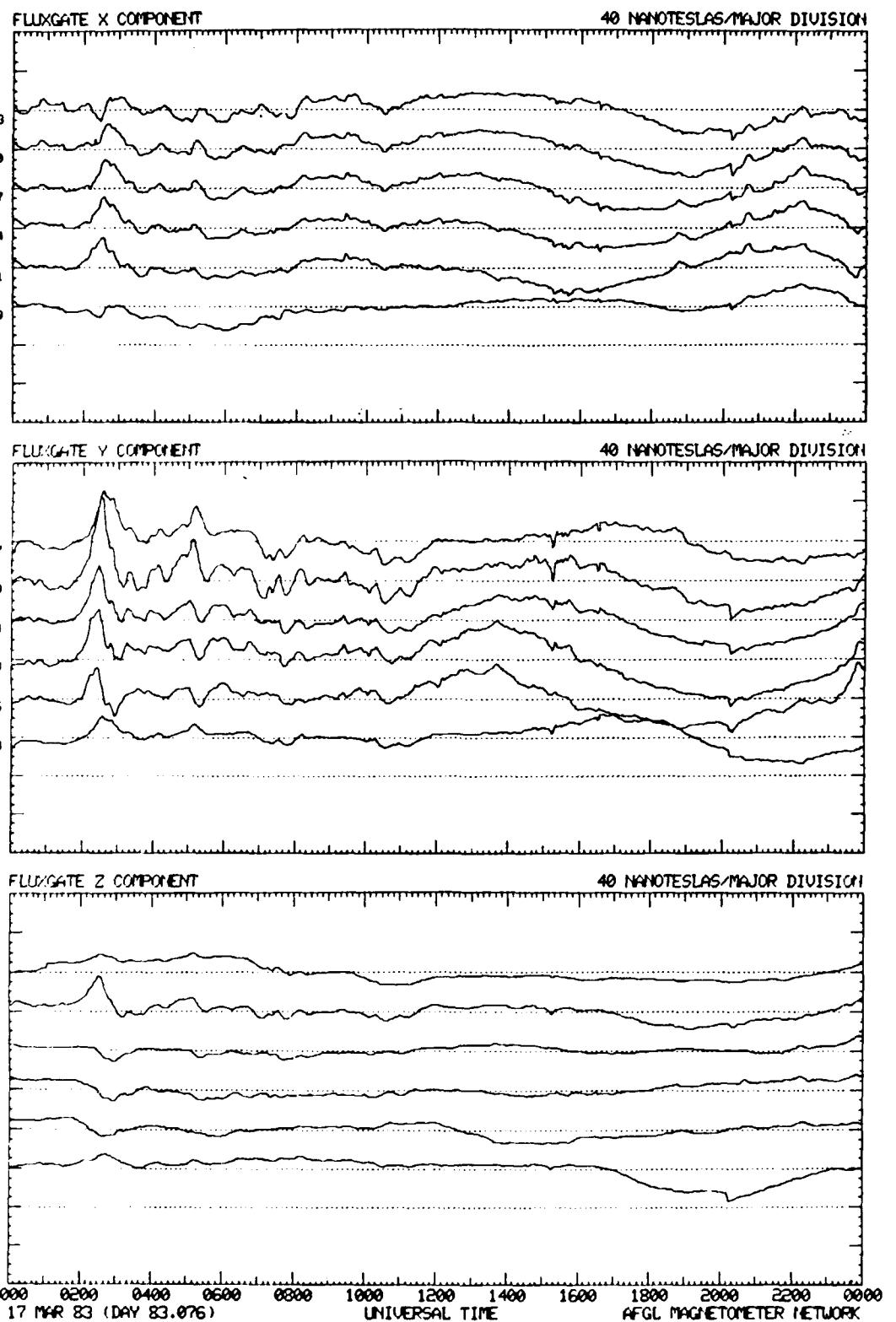
NEU
-56
RPC
-61
CDS
-39
MCL
-116
SUB
119
LOC
5

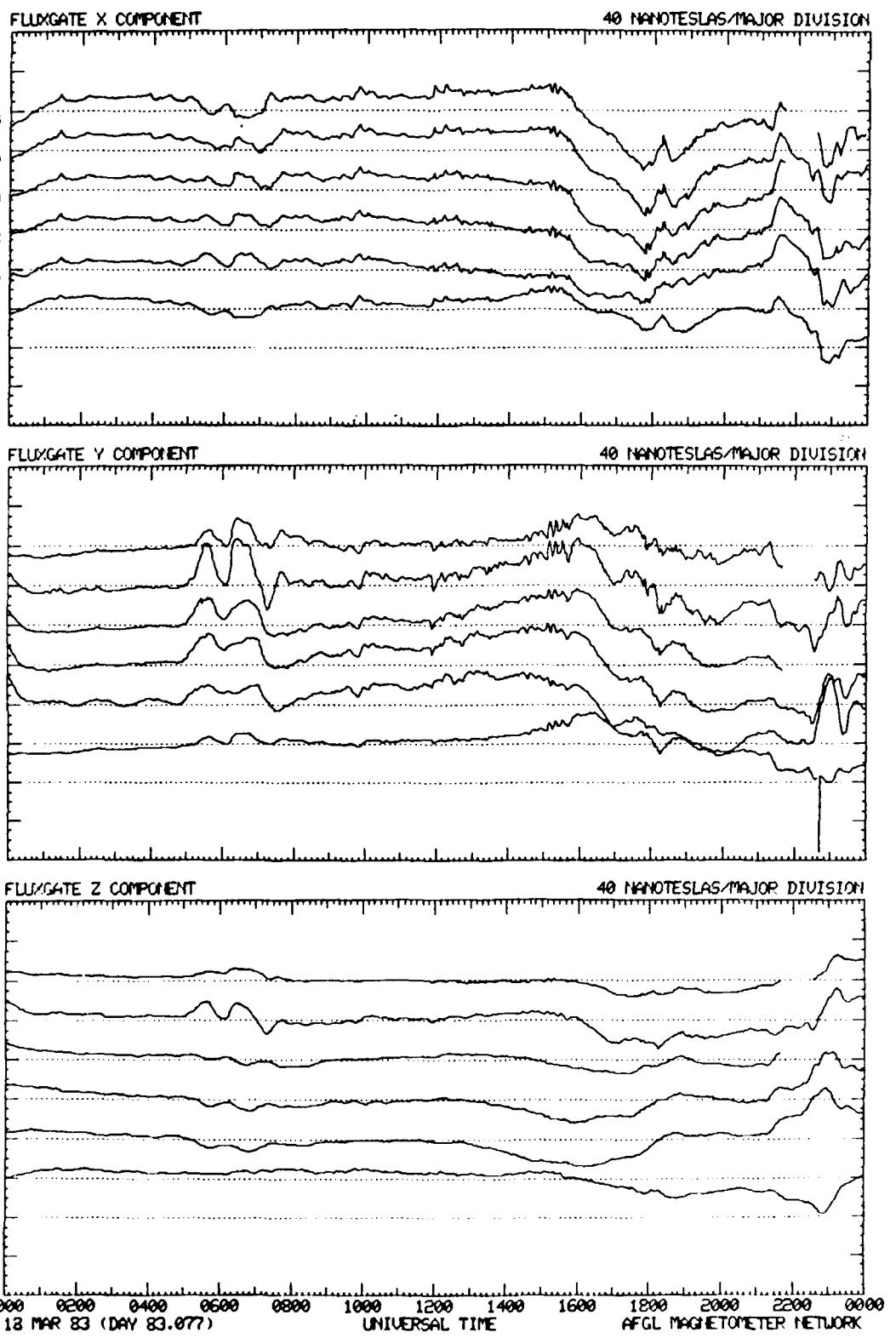
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54440
RPC
54544
CDS
55261
MCL
54454
SUB
53187
LOC
42839

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 MAR 83 (DAY 83.075) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

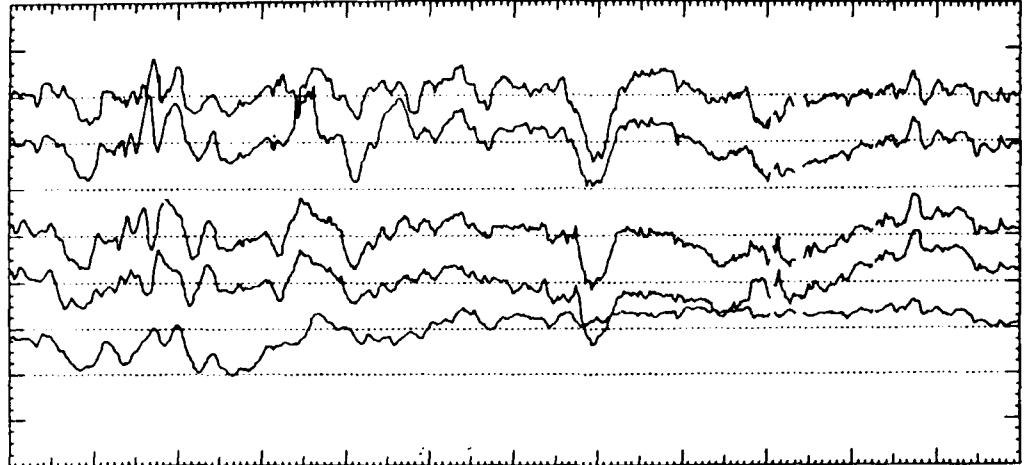




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

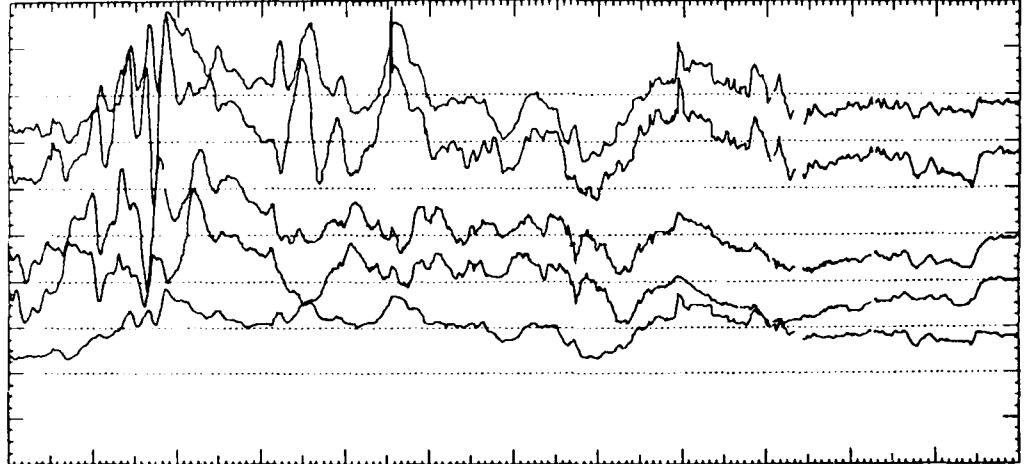
NEW
12180
RPC
18496
CDS
17173
MCL
18099
SUB
18727
LOC
24925



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

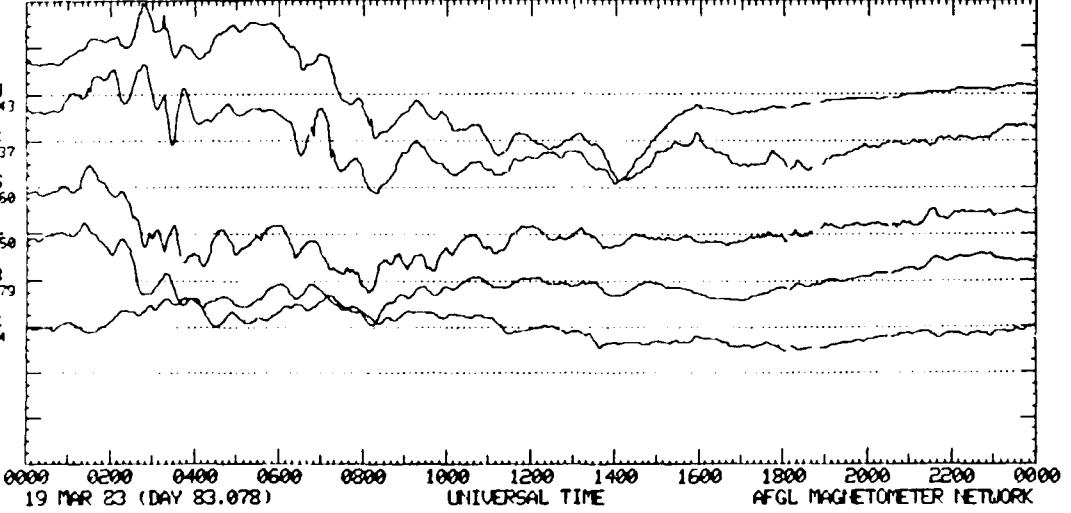
NEW
-63
RPC
-59
CDS
-31
MCL
-116
SUB
122
LOC
5



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

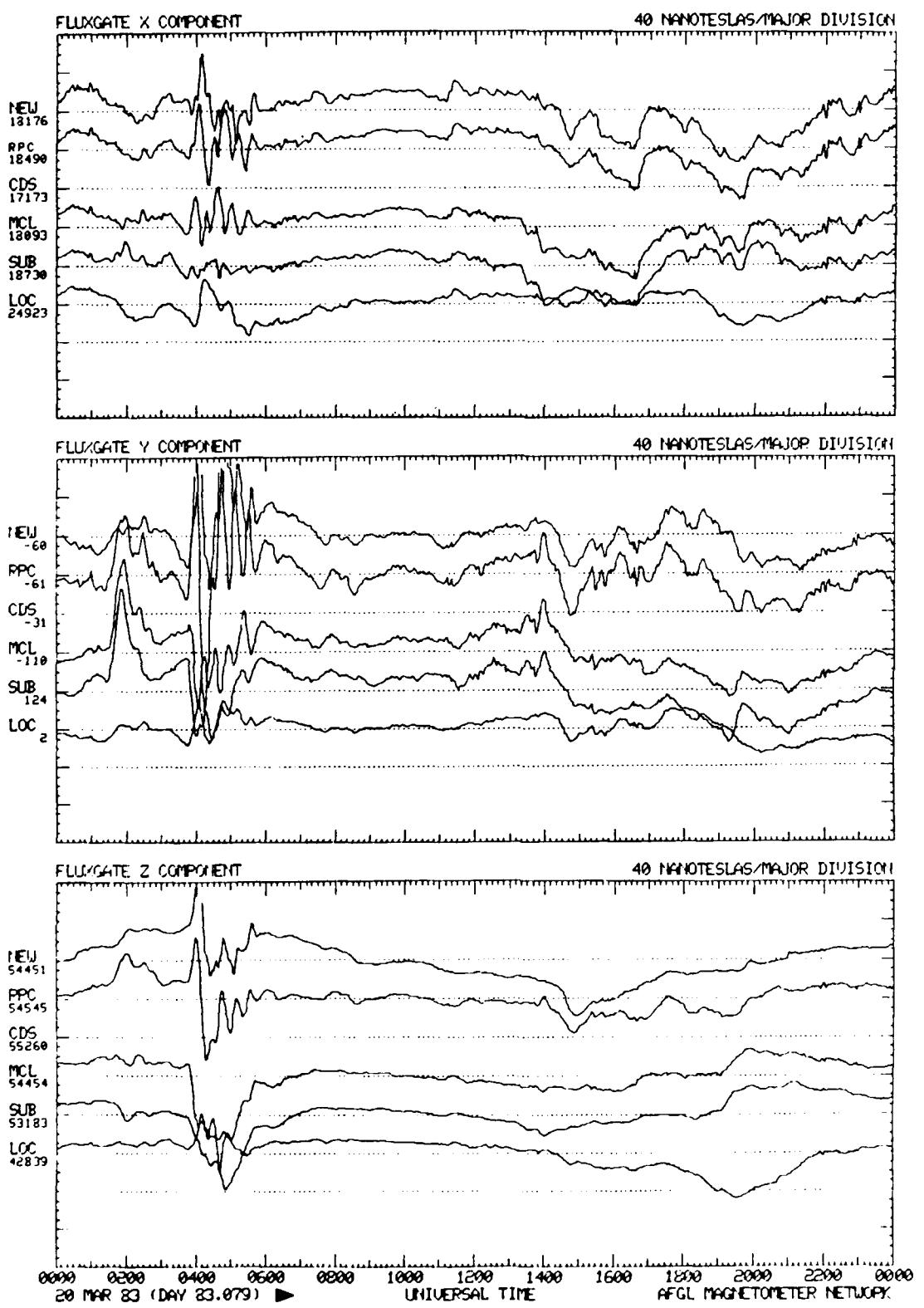
NEW
54443
RPC
54537
CDS
55260
MCL
54450
SUB
53179
LOC
4284

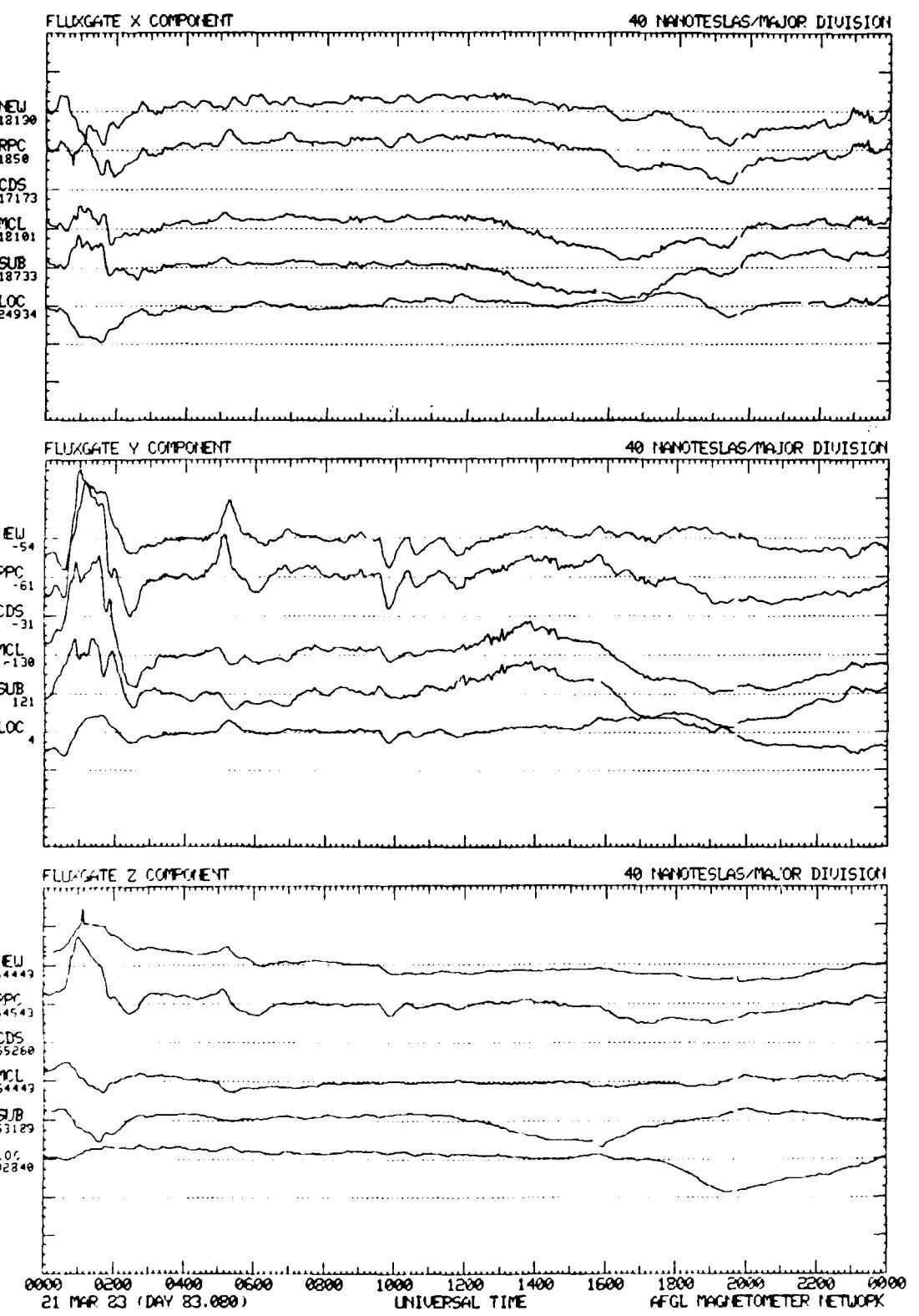


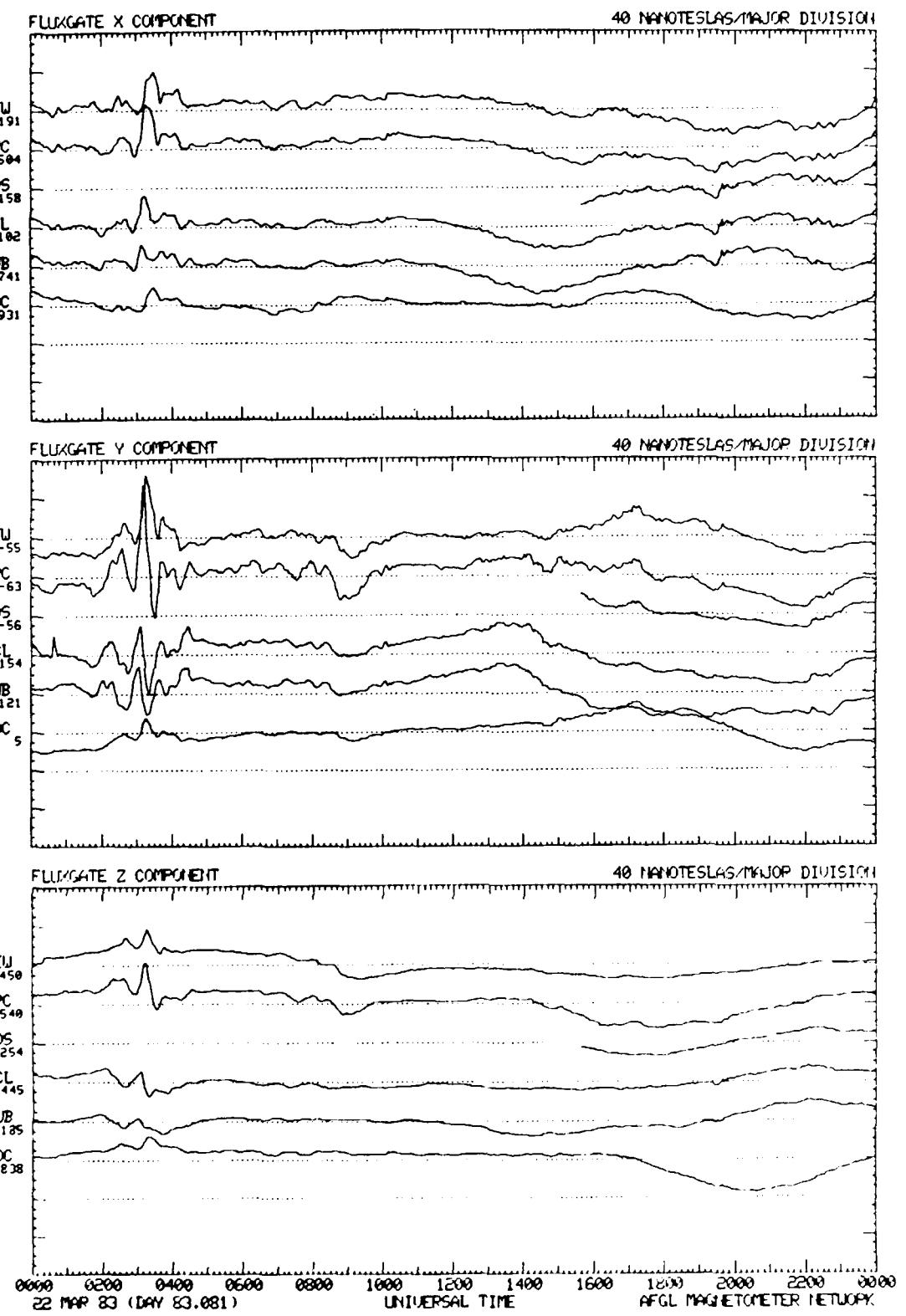
19 MAR 23 (DAY 83.078)

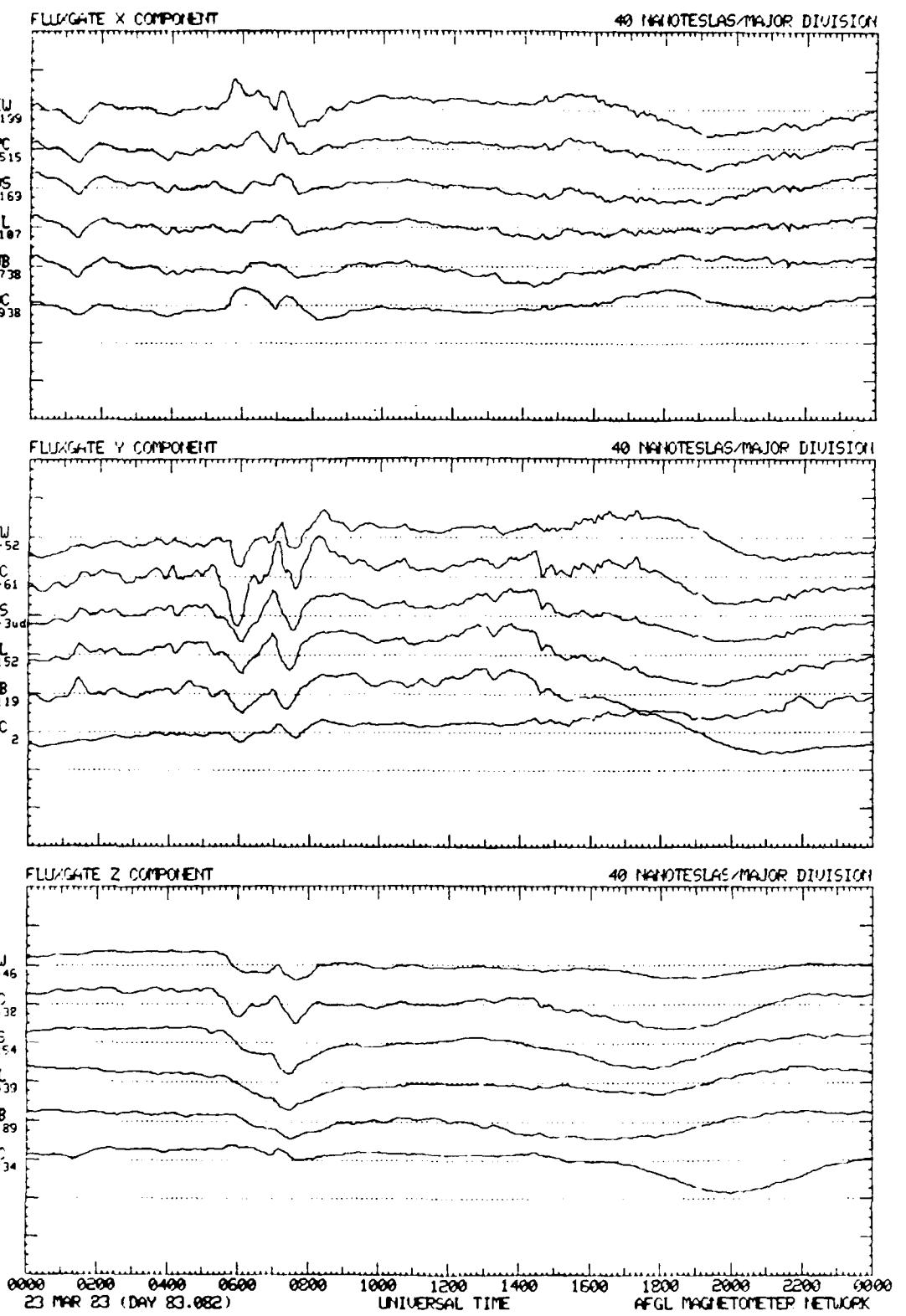
UNIVERSAL TIME

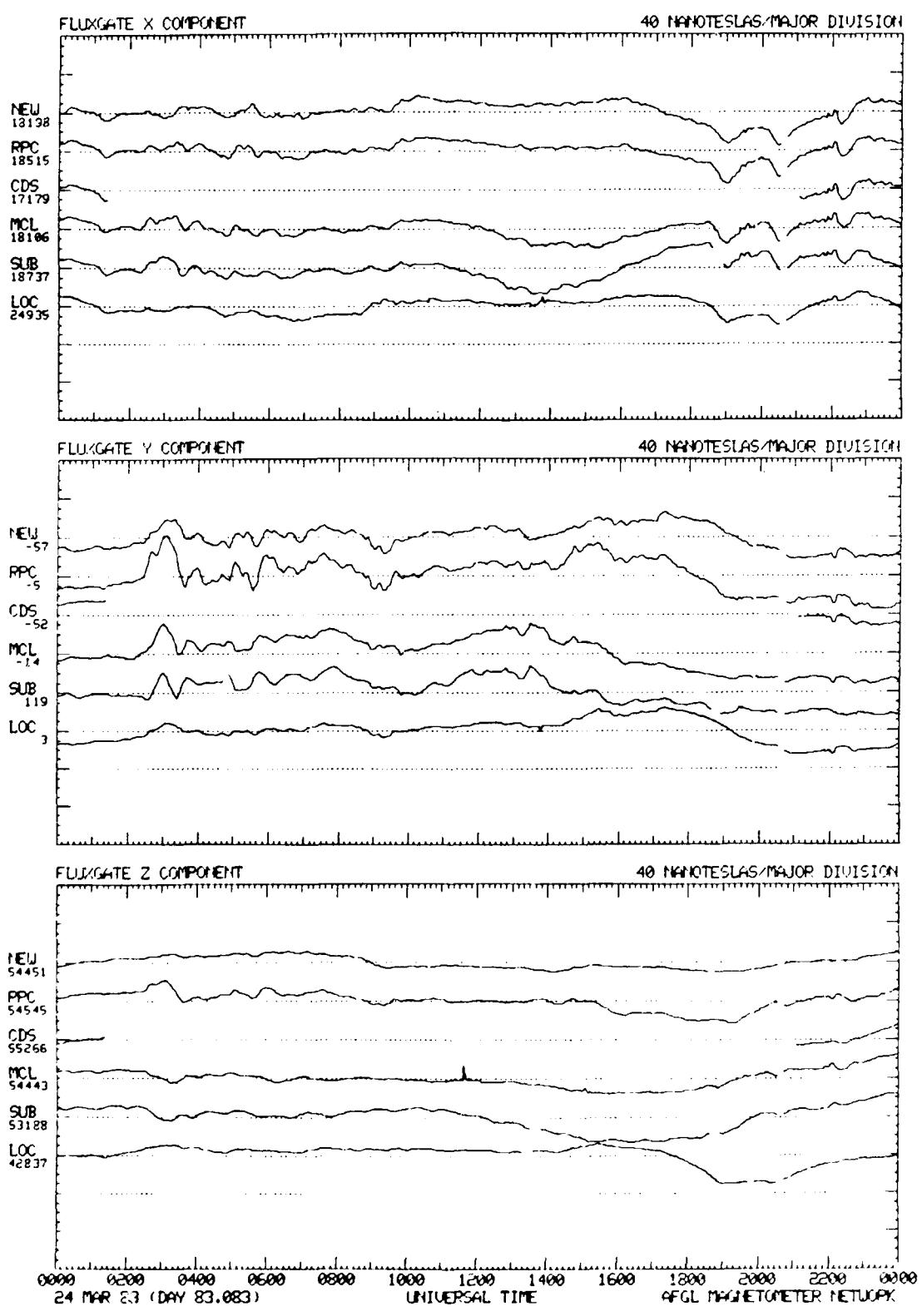
AFGL MAGNETOMETER NETWORK











RD-M173 765

DAILY MAGNETOGRAMS FOR 1983 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 21 MAR 85

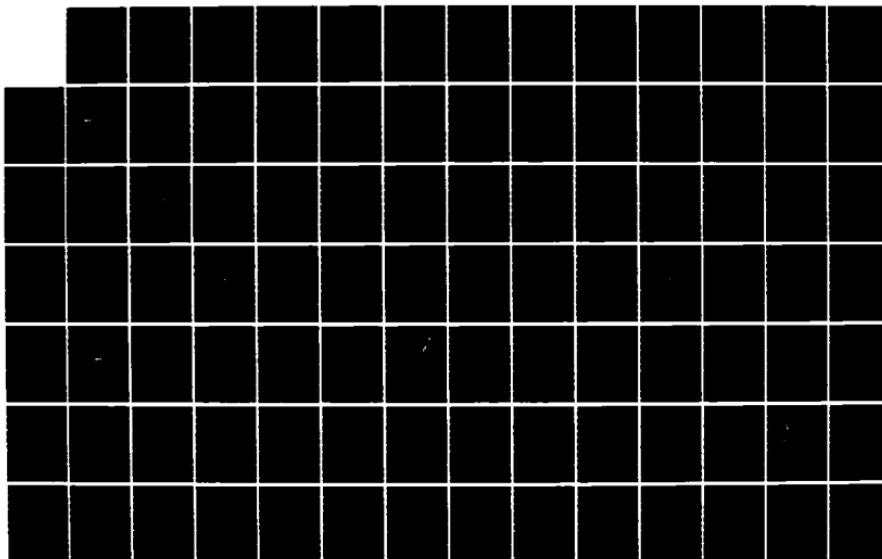
2/3

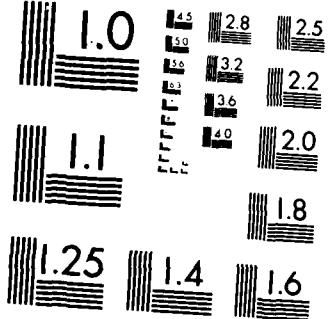
UNCLASSIFIED

AFGL-TR-85-0032

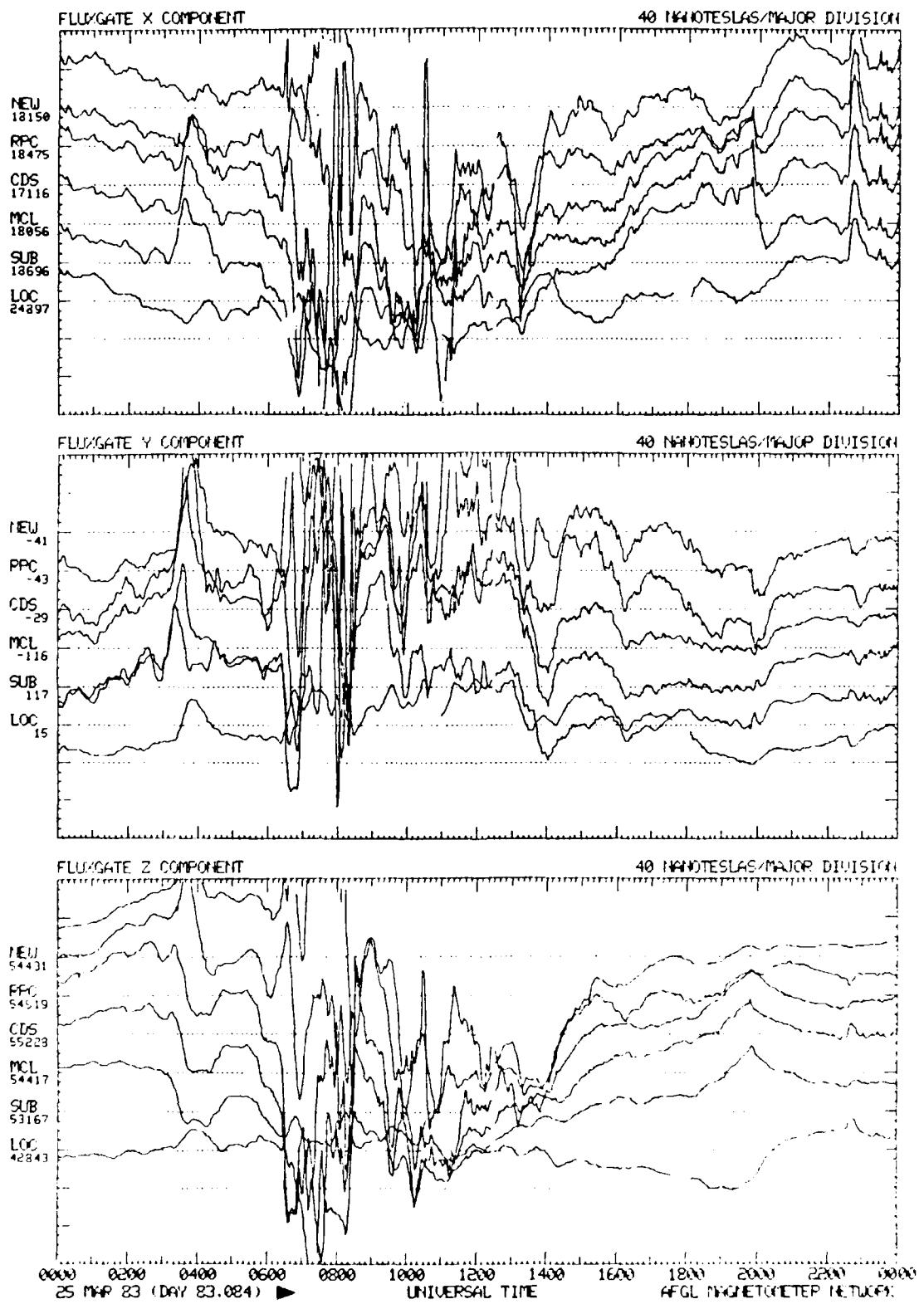
F/G 8/14

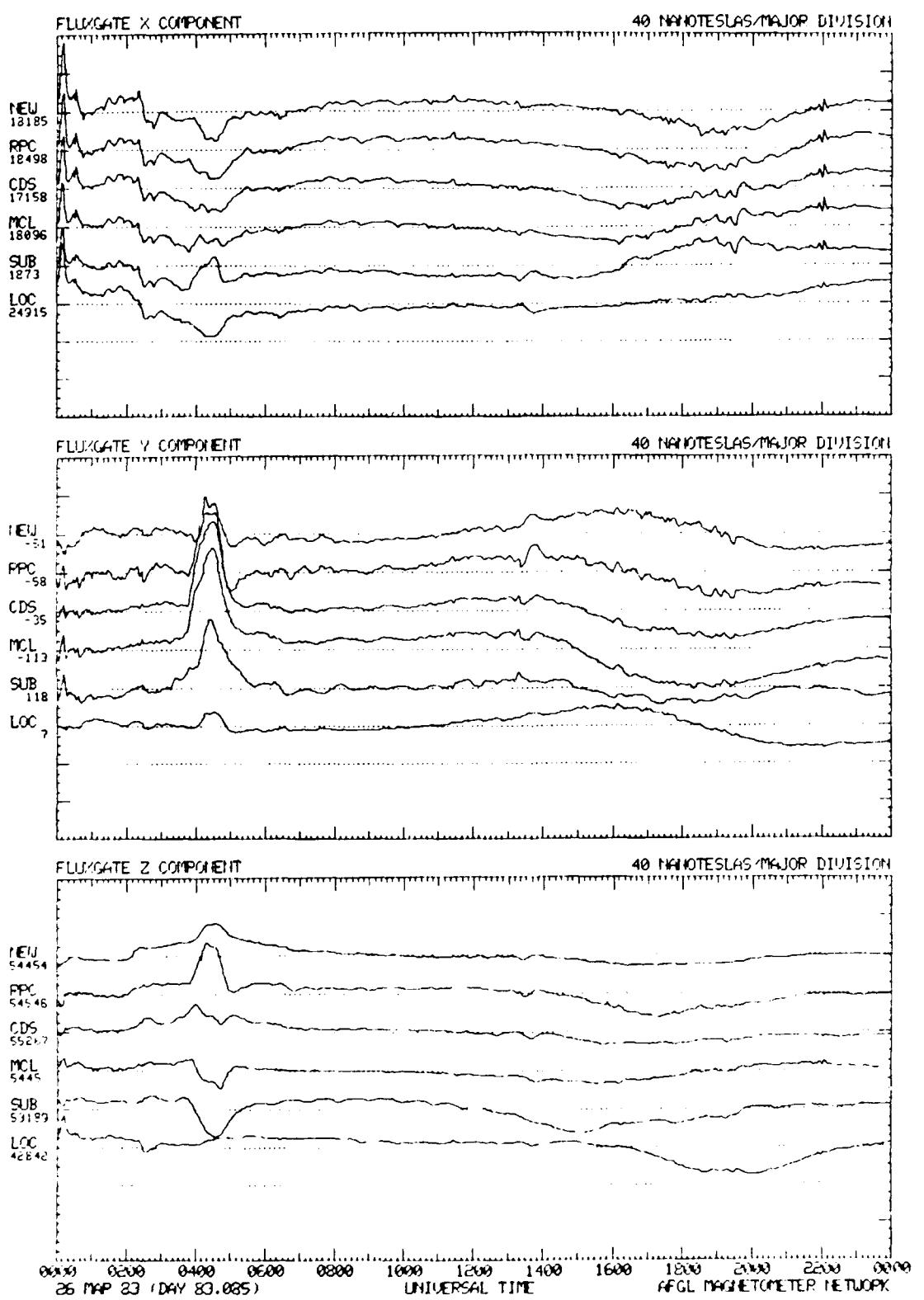
NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12197
RPC
18512
CDS
17169
MCL
18110
SUB
18739
LOC
24934

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-55
RPC
-64
CDS
-38
MCL
-119
SUB
113
LOC
2

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
5444
RPC
54540
CDS
55261
MCL
54454
SUB
53190
LOC
42843

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 MAR 83 (DAY 83.086) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18174
RPC
18491
CDS
17152
MCL
18095
SUB
18727
LOC
24913

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

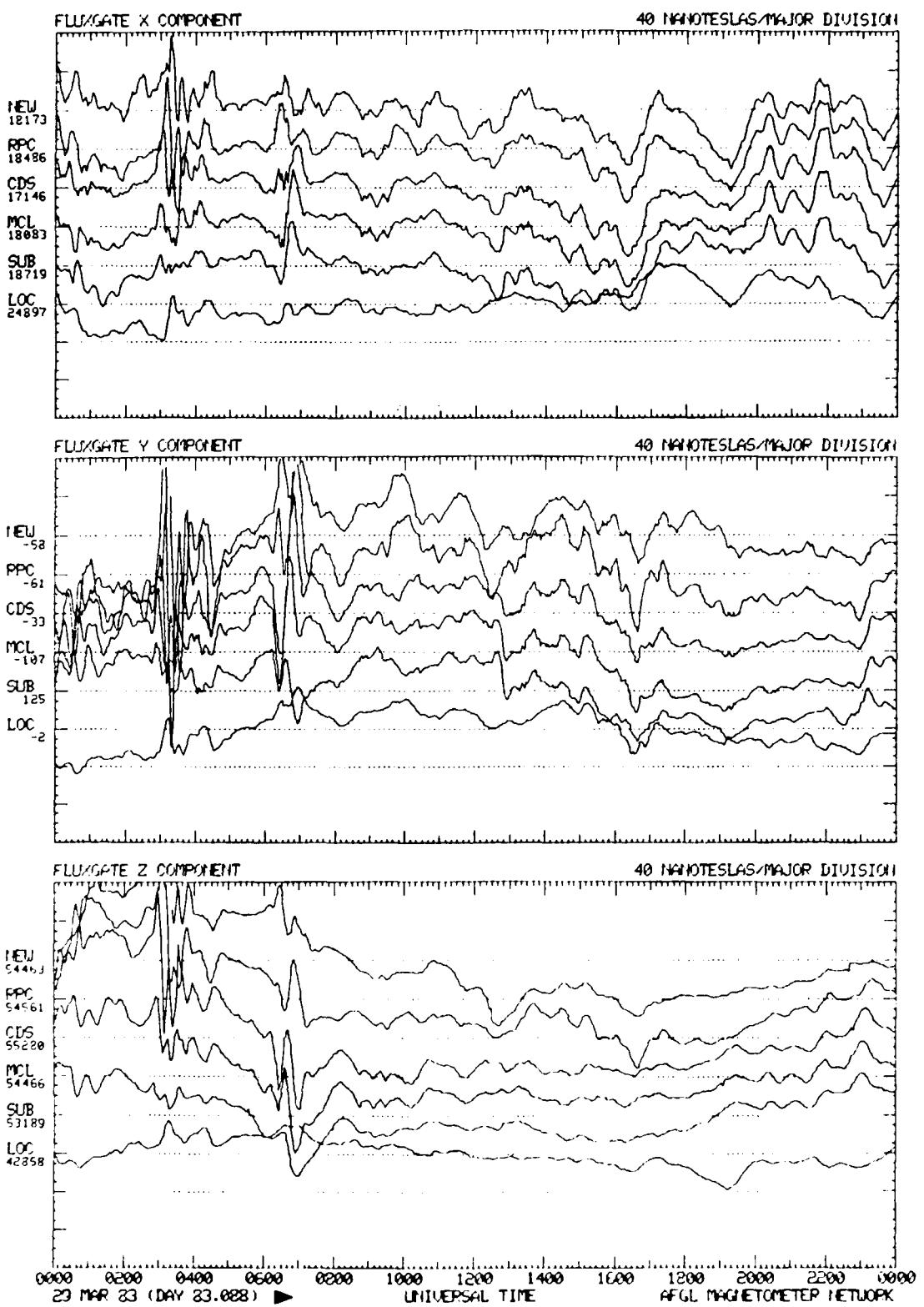
NEU
-60
PPC
-64
CDS
-41
MCL
-120
SUB
118
LOC
0

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54427
PPC
54529
CDS
55243
MCL
54451
SUB
53177
LOC
42846

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
28 MAR 23 (DAY 83.087) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18185
PPC
18503
CDS
17158
MCL
18094
SUB
18724
LOC
24967

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

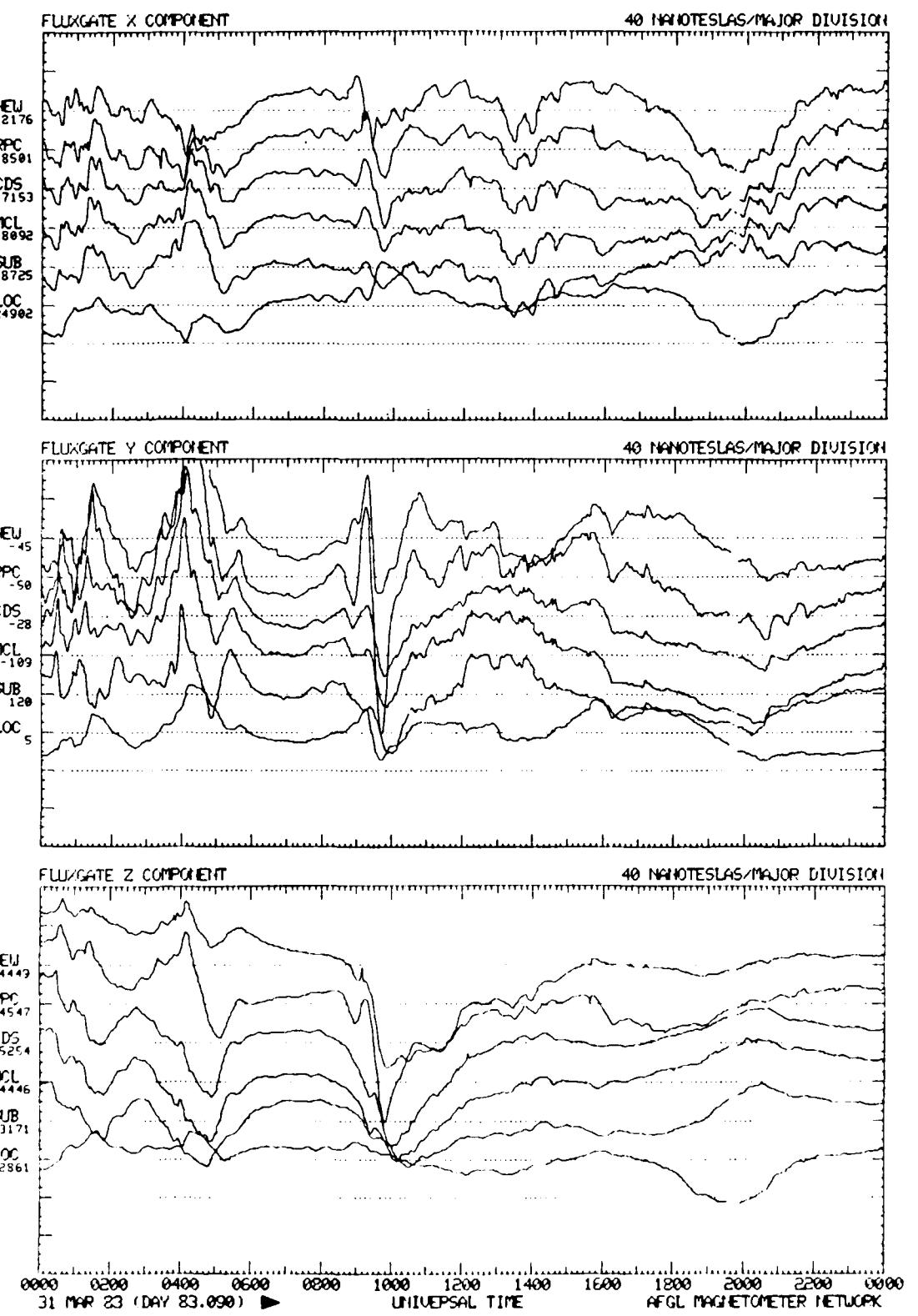
NEW
-49
PPC
-54
CDS
-31
MCL
-119
SUB
119
LOC
2

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

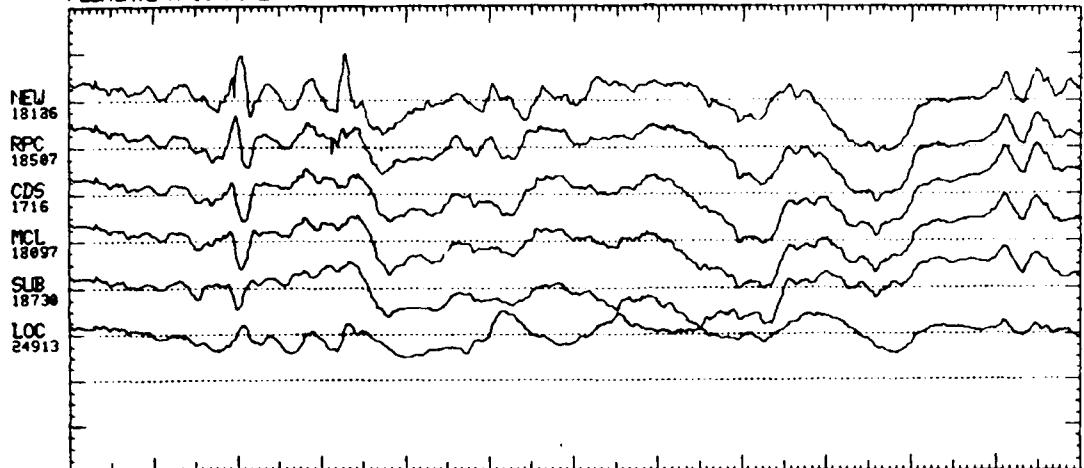
NEW
54456
PPC
54550
CDS
55262
MCL
54450
SUB
53185
LOC
42855

0000 0200 0400 0600 0800 1000 1200 1400 .600 1200 2000 2200 2300
0000
30 MAR 23 (NY 83.089) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



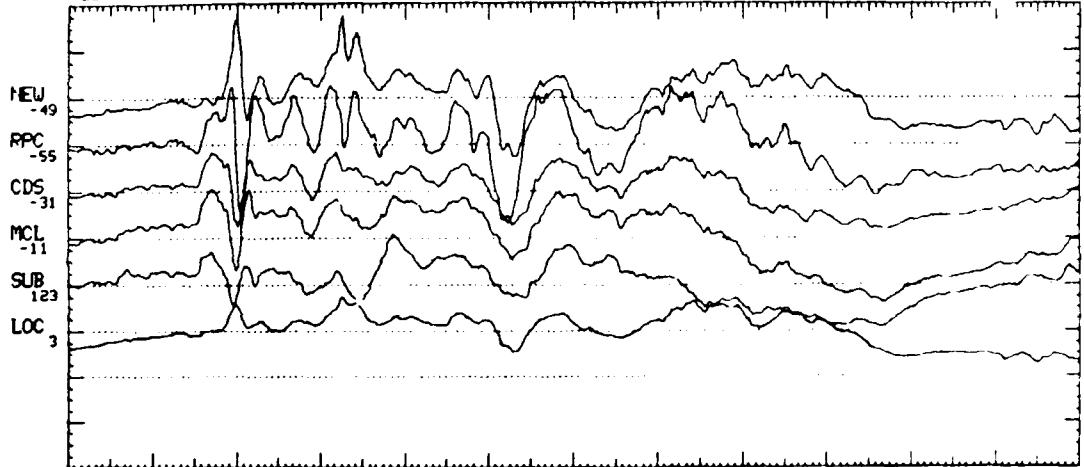
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



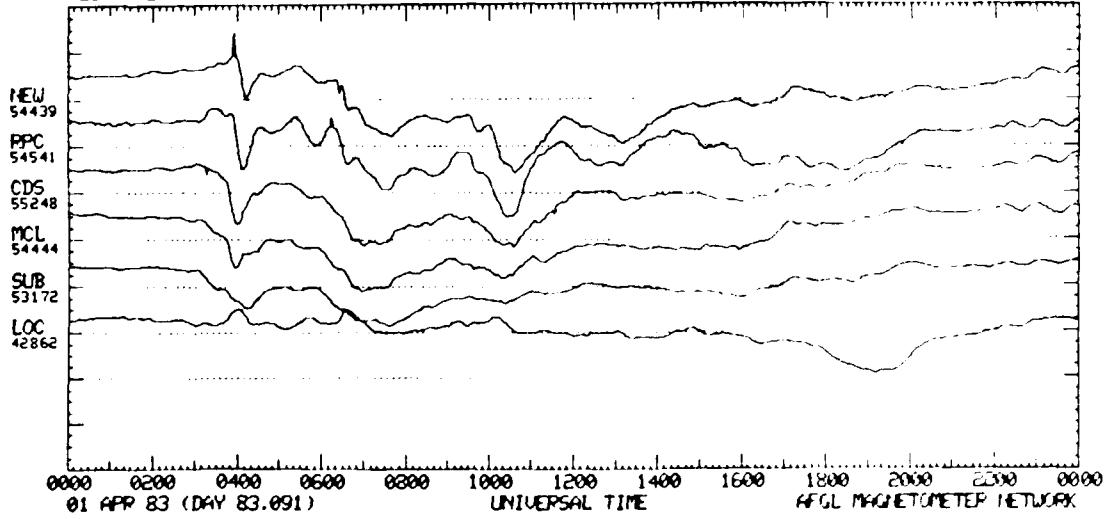
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

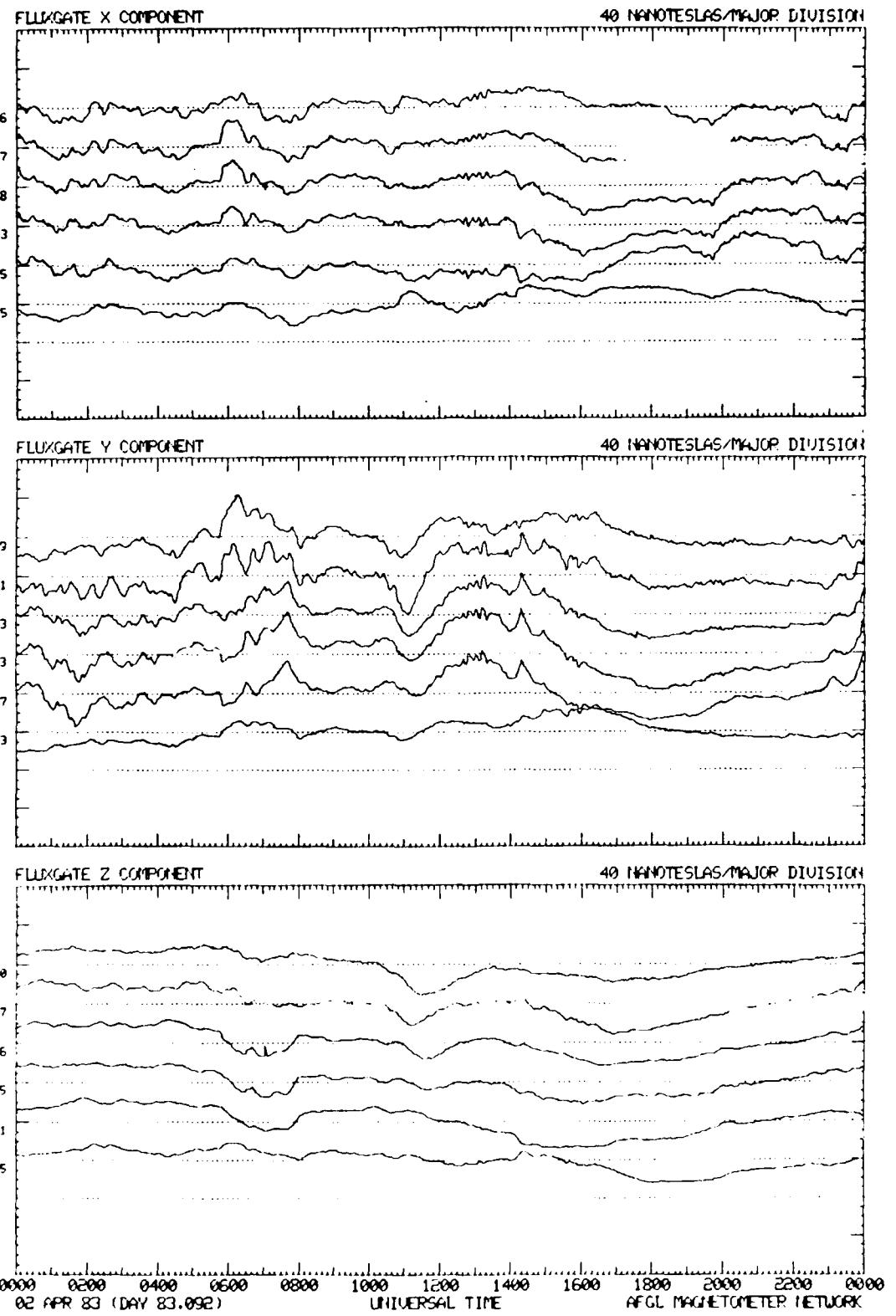
40 NANOTESLAS/MAJOR DIVISION



01 APR 83 (DAY 83.091)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13194
RPC
18509
CDS
17173
MCL
18114
SUB
18742
LOC
24913

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

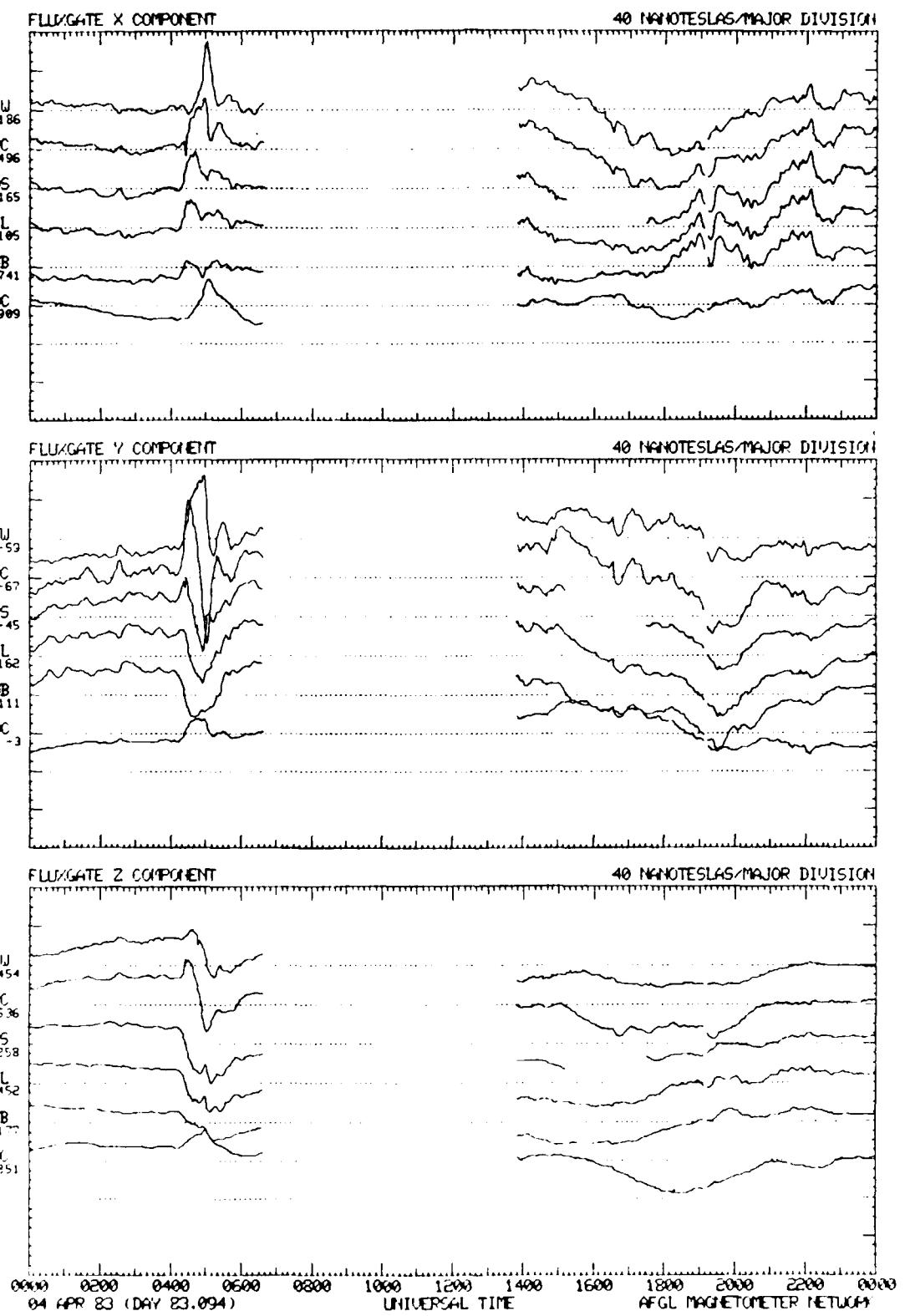
NEW
-54
RPC
-56
CDS
-35
MCL
-138
SUB
123
LOC
0

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54456
RPC
54541
CDS
55257
MCL
54458
SUB
53180
LOC
42860

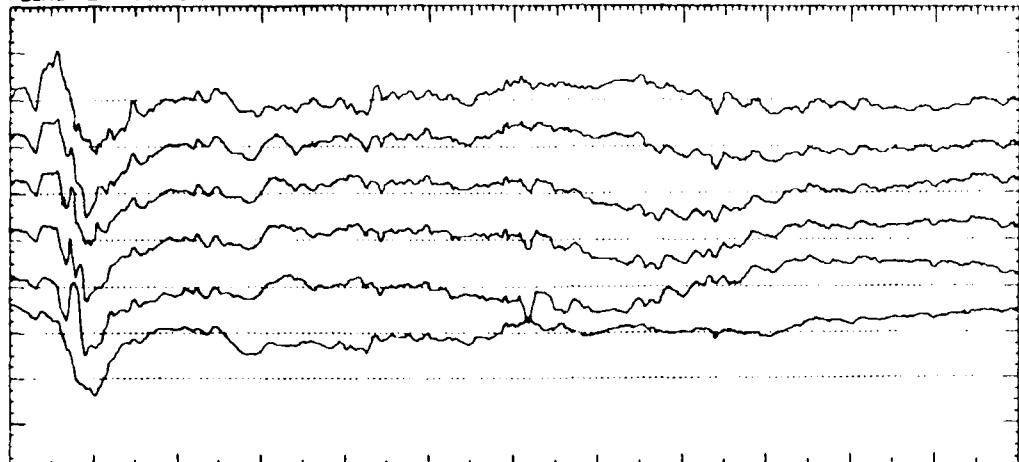
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 APR 83 (DAY 83.093) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

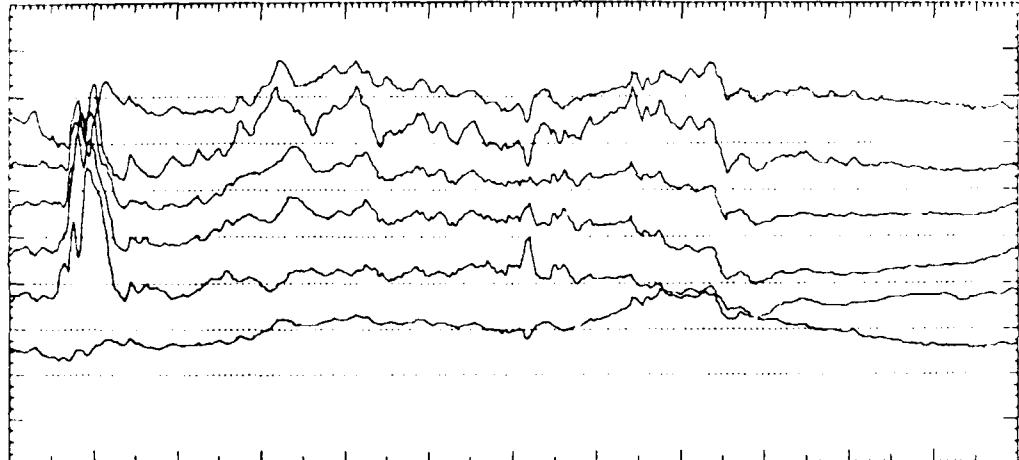
NEW
18201
RPC
18511
CDS
17177
MCL
18116
SUB
18752
LOC
24907



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

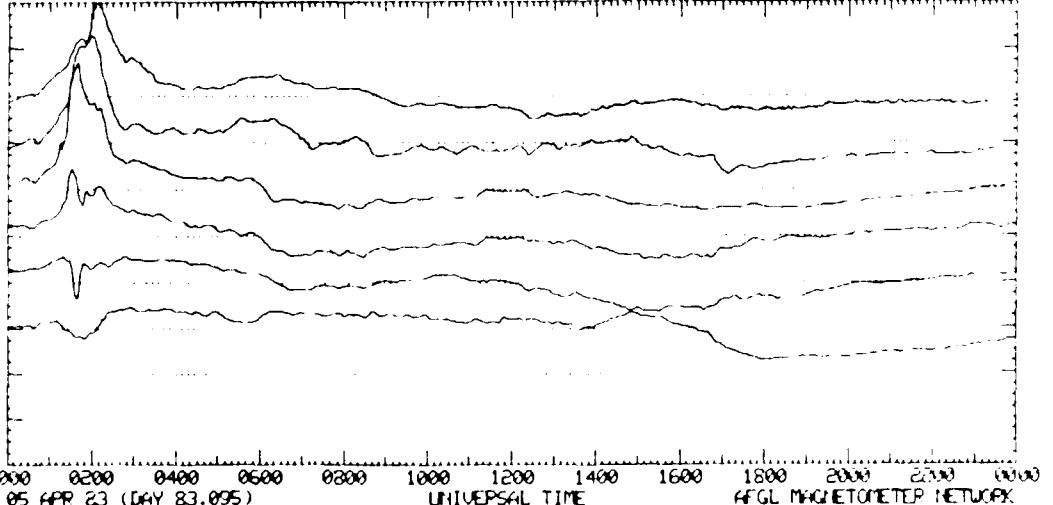
NEW
56
RPC
56
CDS
-30
MCL
-143
SUB
134
LOC
8



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54457
RPC
54455
CDS
55261
MCL
54452
SUB
53172
LOC
42854



05 APR 23 (DAY 83.095)

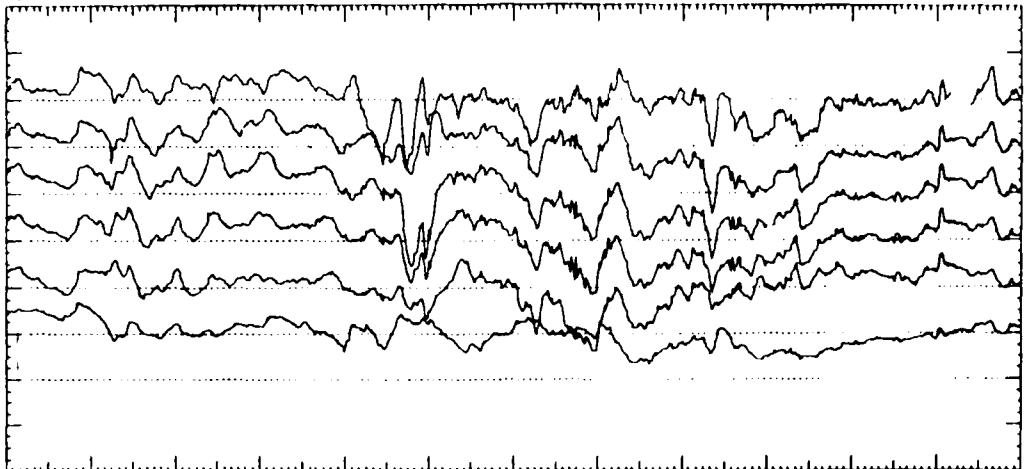
UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

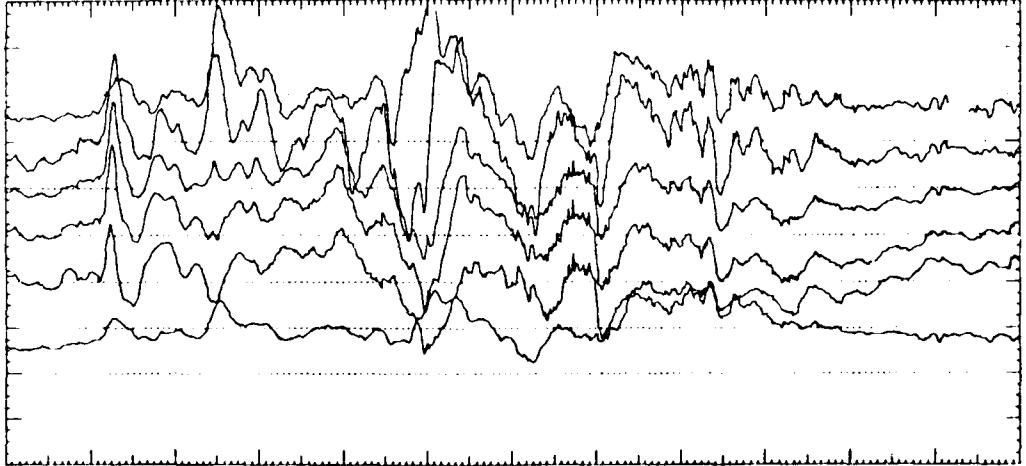
NEW
18193
RPC
18584
CDS
17171
MCL
18110
SUB
18214
LOC
24909



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

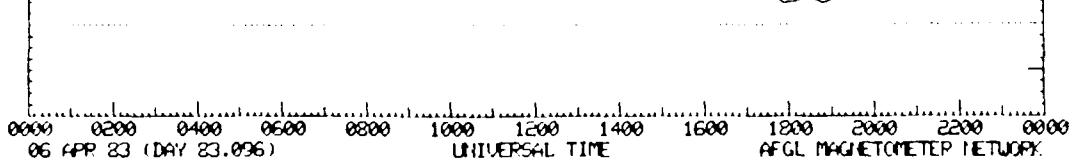
NEW
-49
RPC
-61
CDS
-40
MCL
-158
SUB
121
LOC
2



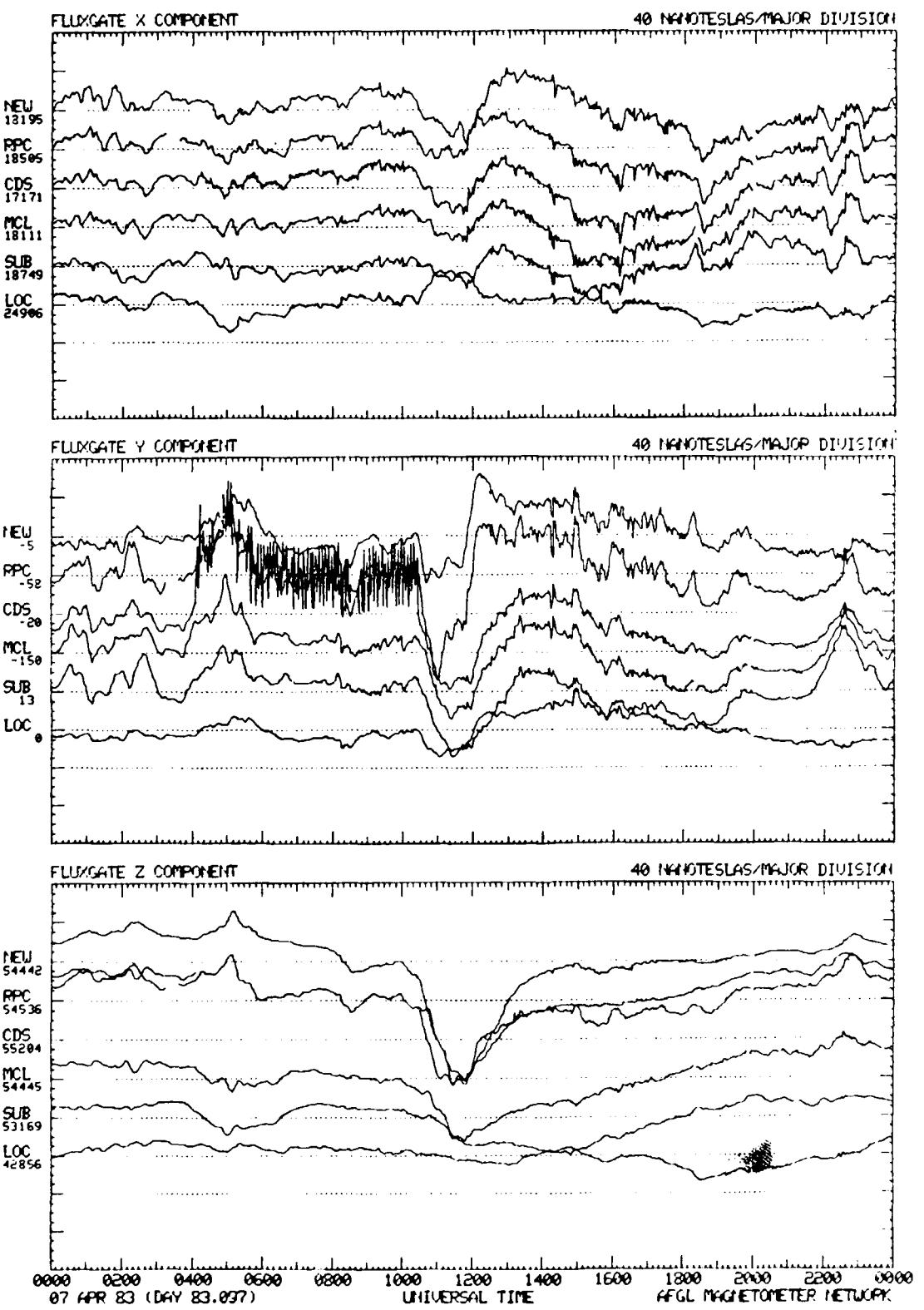
FLUXGATE Z COMPONENT

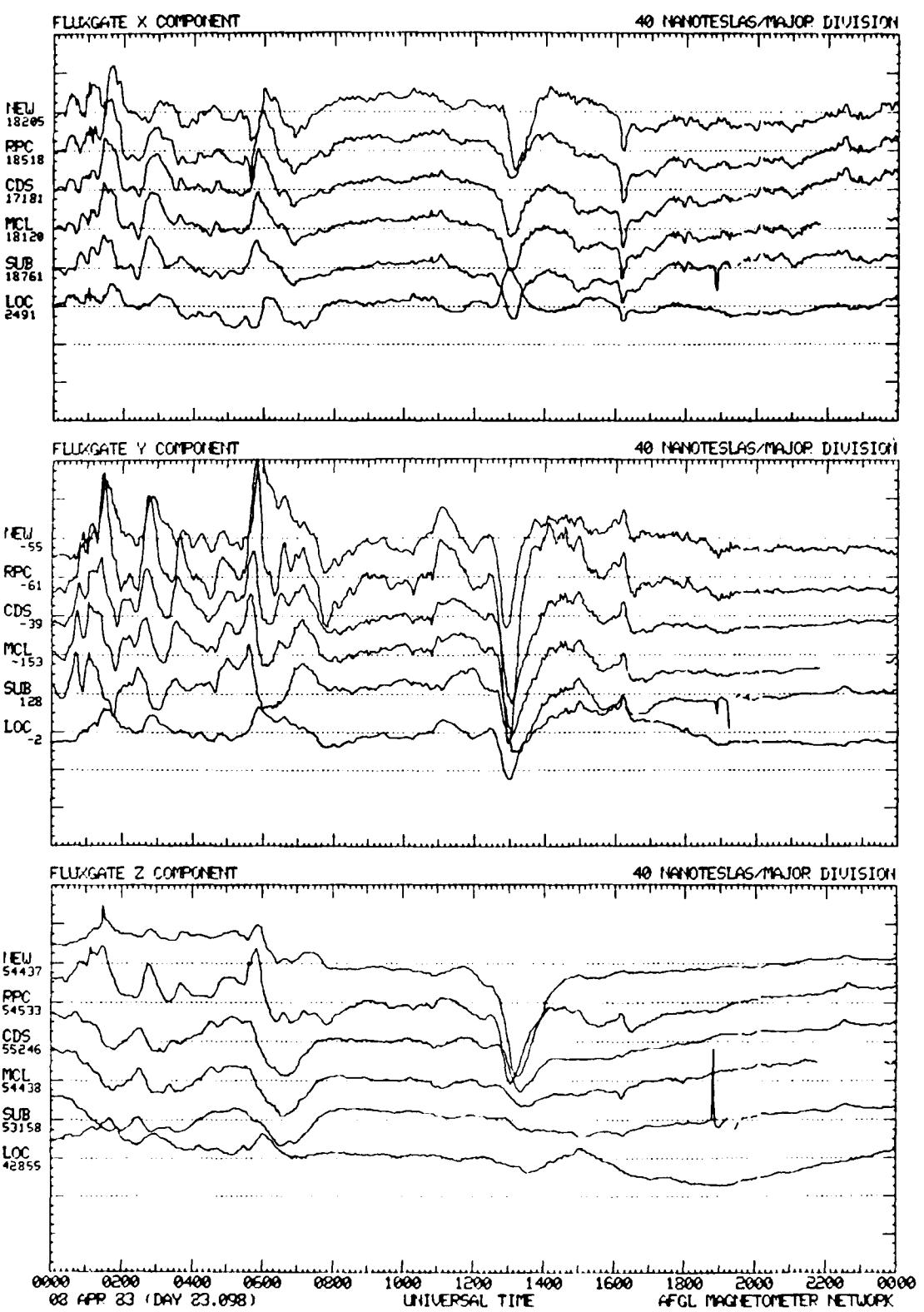
40 NANOTESLAS/MAJOR DIVISION

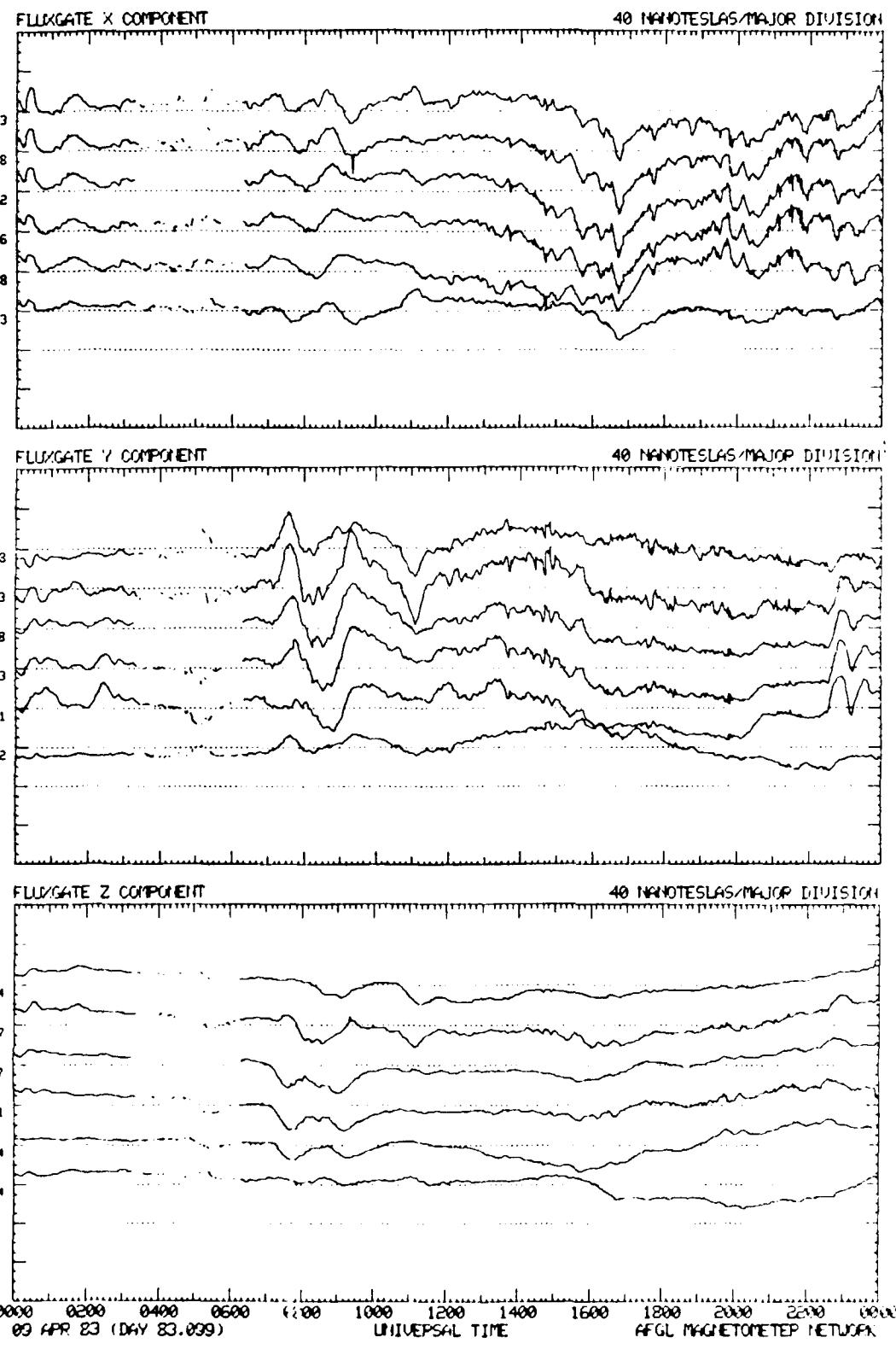
NEW
54427
RPC
54524
CDS
55244
MCL
54437
SUB
53164
LOC
42251



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
06 APR 23 (DAY 23.096) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

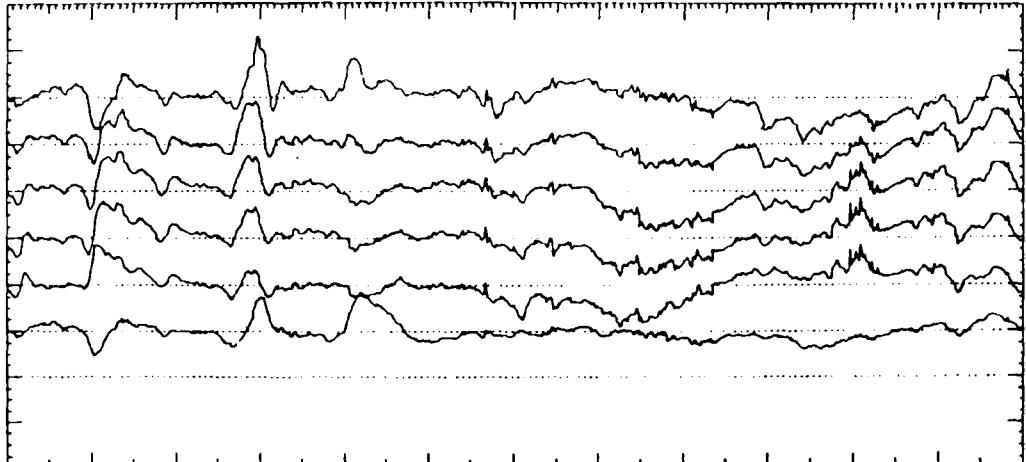






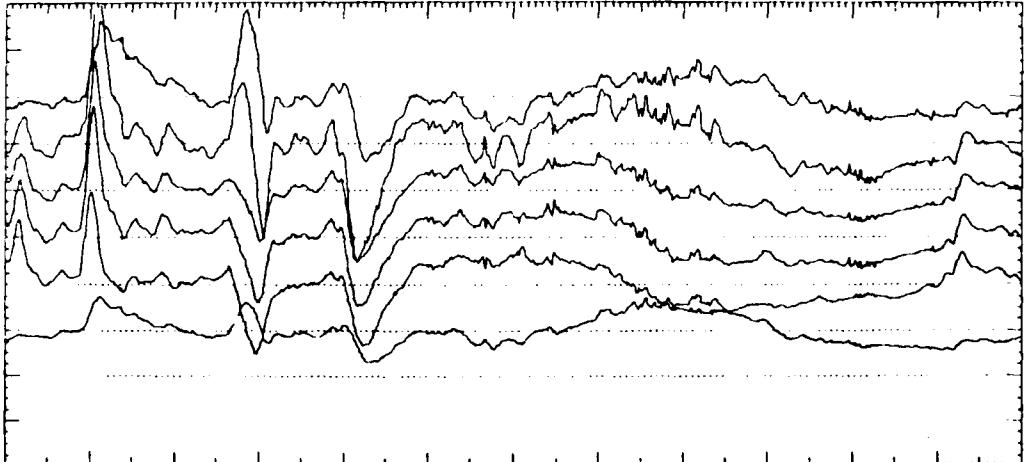
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18204
RPC
18522
CDS
17180
MCL
18121
SUB
18753
LOC
24913

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-58
RPC
-60
CDS
-36
MCL
-151
SUB
124
LOC
-2

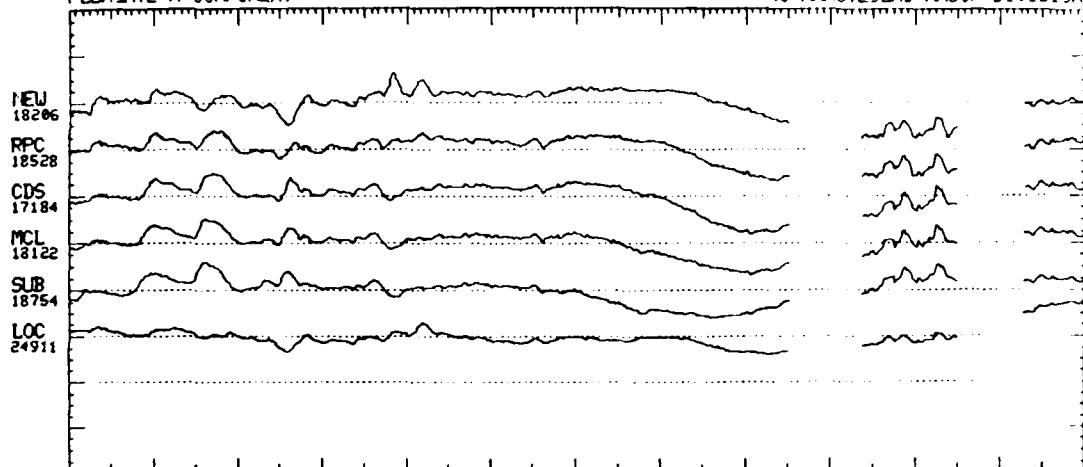
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54434
RPC
54532
CDS
55247
MCL
54439
SUB
53169
LOC
427540000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
10 APR 83 (DAY 23.100) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

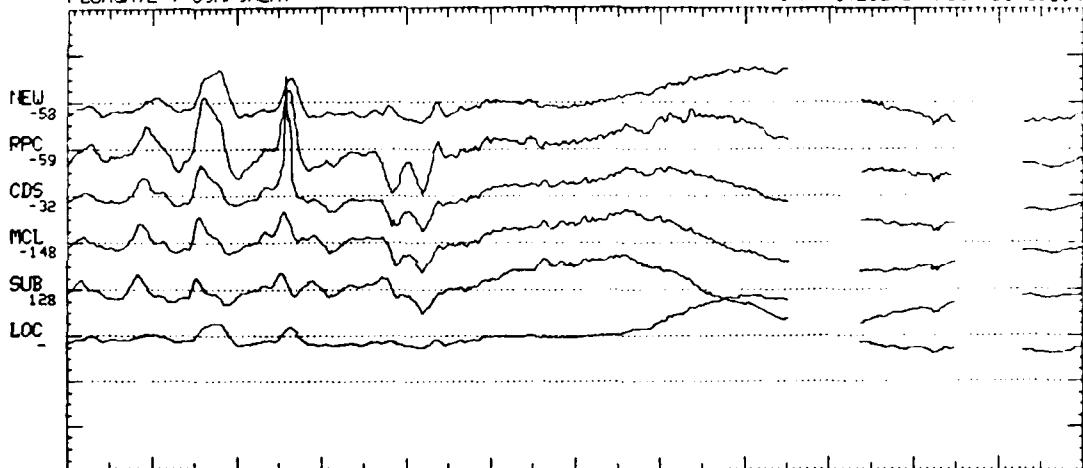
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



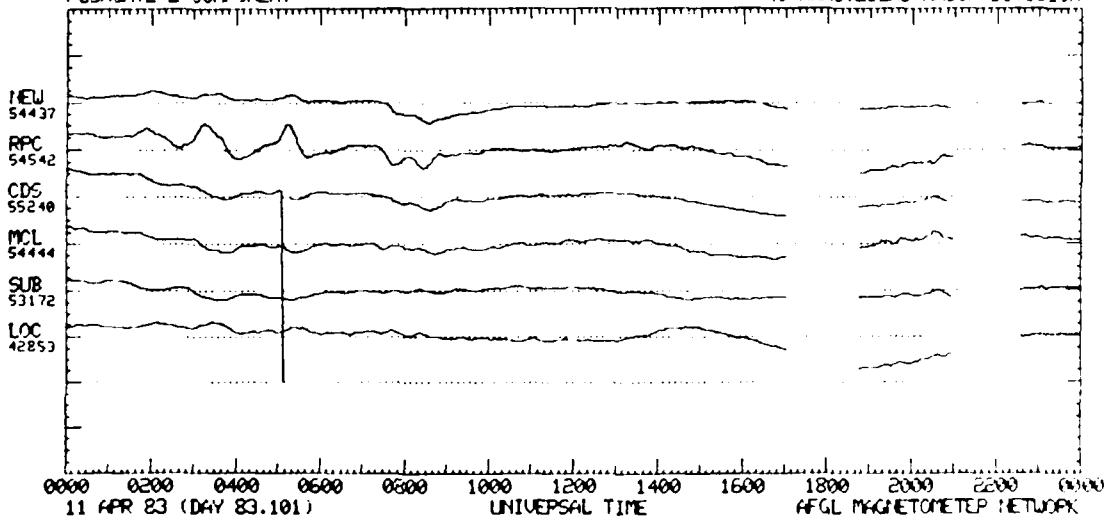
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



11 APR 83 (DAY 83.101)

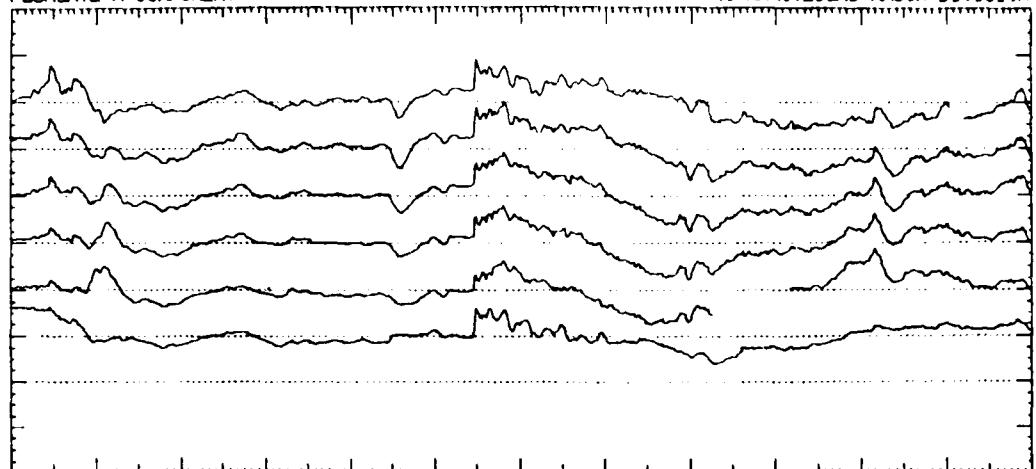
UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

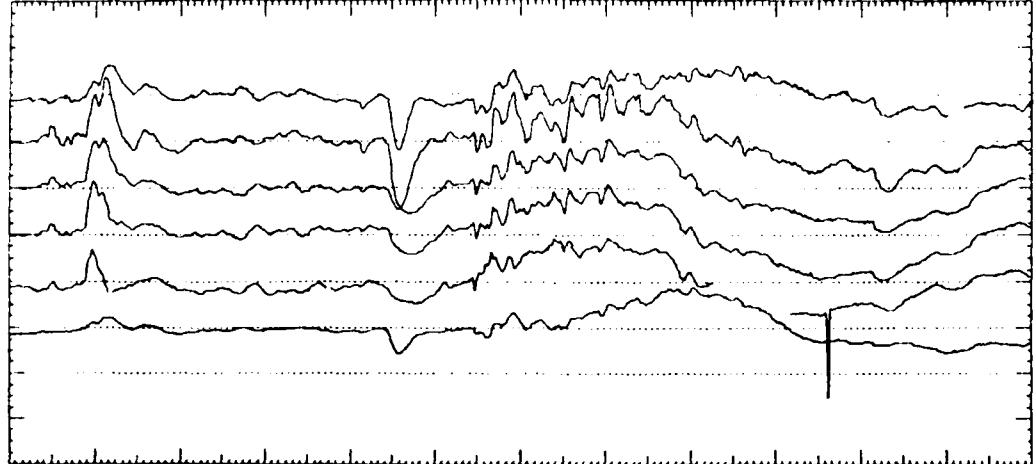
NEW
18208
PPC
18527
CDS
17118
MCL
18126
SUB
18760
LOC
24914



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

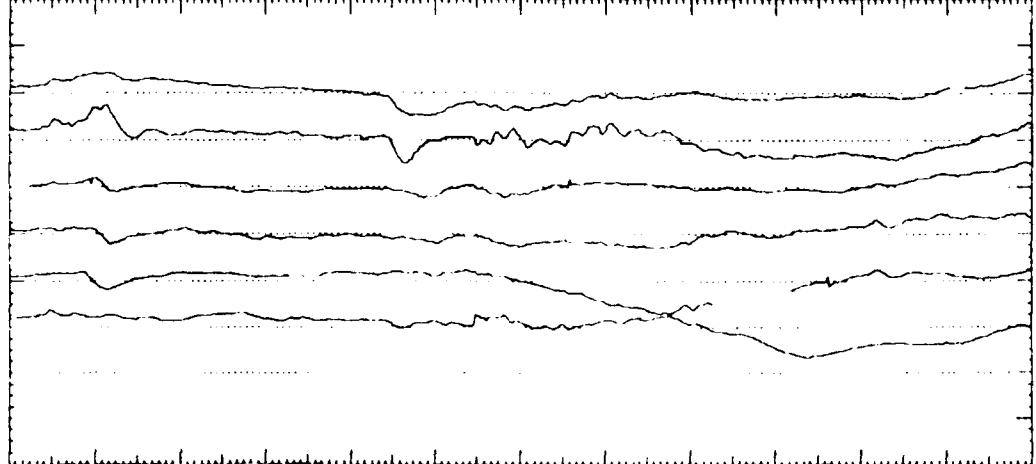
NEW
-63
PPC
-66
CDS
-40
MCL
-154
SUB
127
LOC
-6



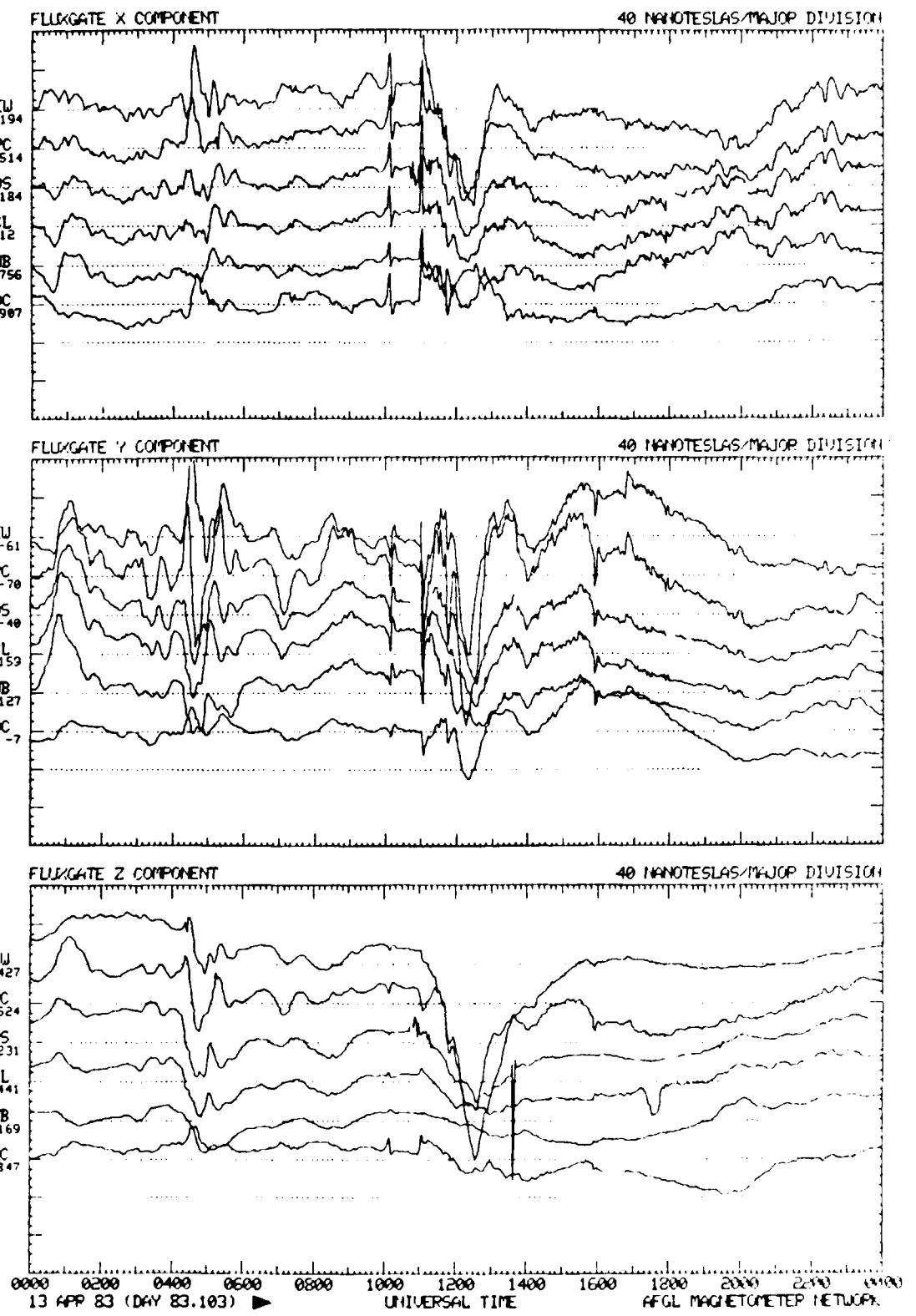
FLUXGATE Z COMPONENT

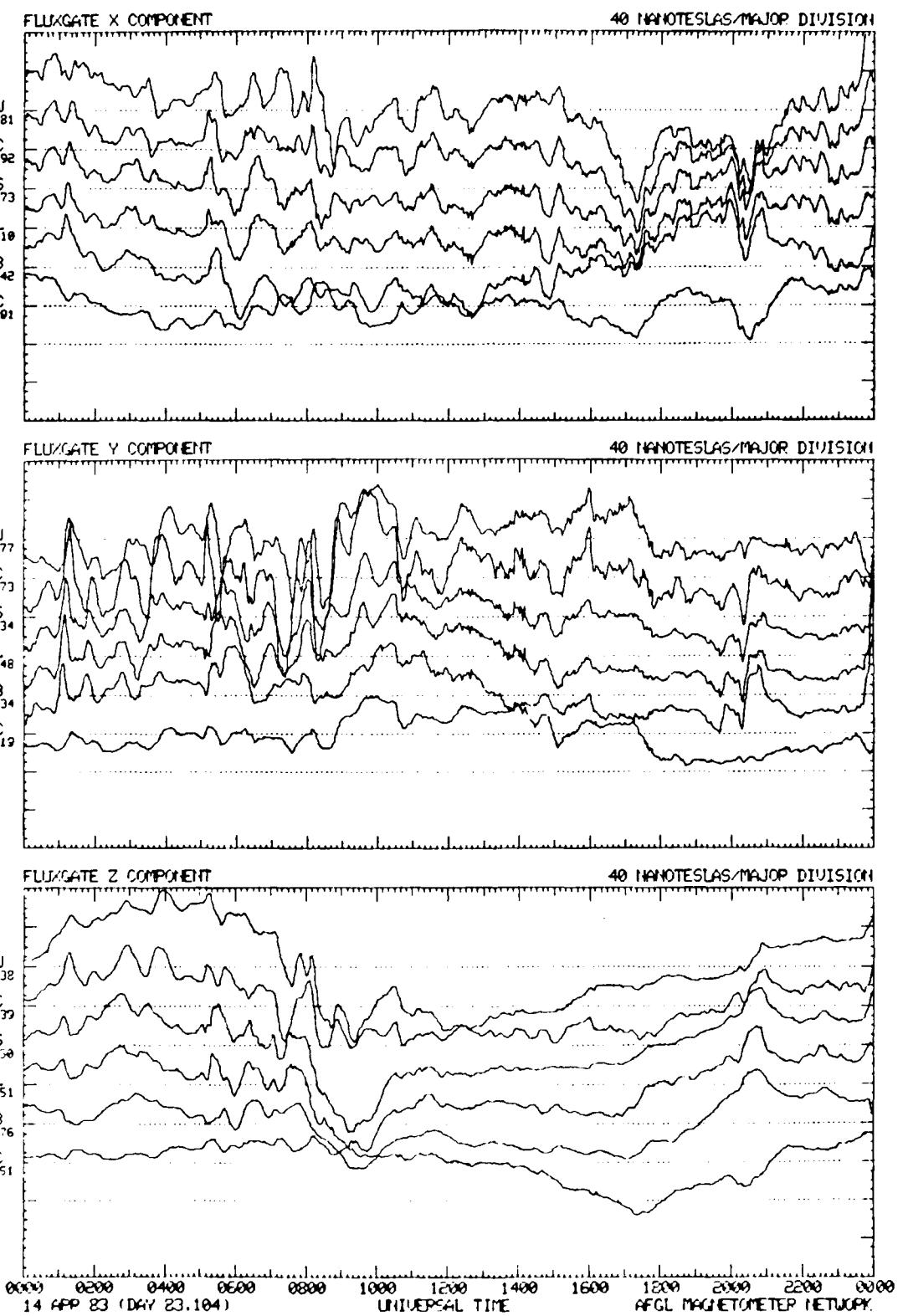
40 NANOTESLAS/MAJOR DIVISION

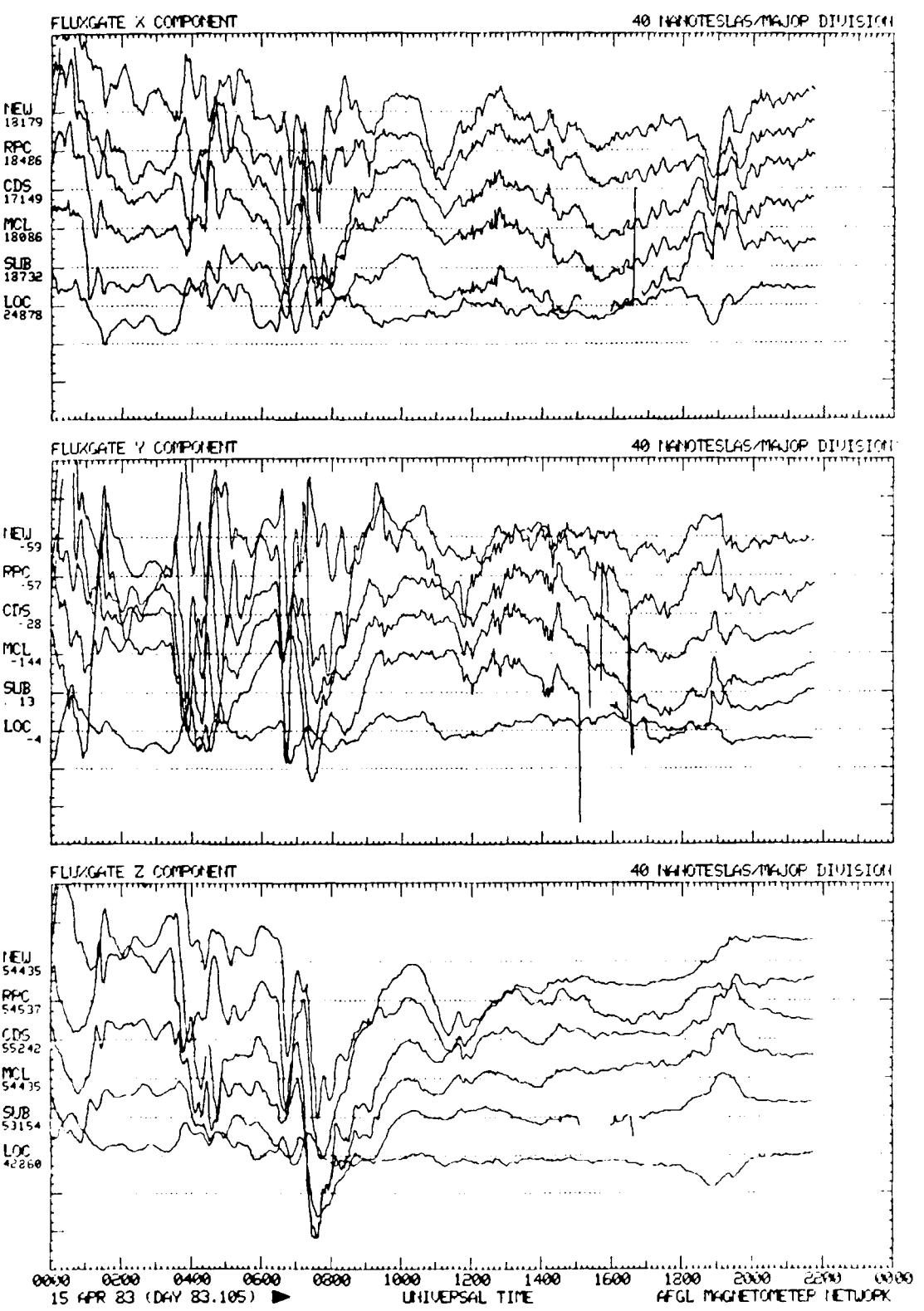
NEW
54432
PPC
54535
CDS
55235
MCL
54444
SUB
53170
LOC
42848



00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
12 APR 23 (DAY 83,102) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18185
RPC
18498
CDS
17167
MCL
16105
SUB
18741
LOC
24282

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-51
RPC
-55
CDS
-32
MCL
-150
SUB
131
LOC
-2

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54447
RPC
54539
CDS
55246
MCL
54437
SUB
53160
LOC
42852

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
16 APR 83 (DAY 23.106) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12193
RPC
18511
CDS
27172
MCL
18110
SUB
12748
LOC
24891

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-55
RPC
-57
CDS
-36
MCL
-152
SUB
128
LOC
-5

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

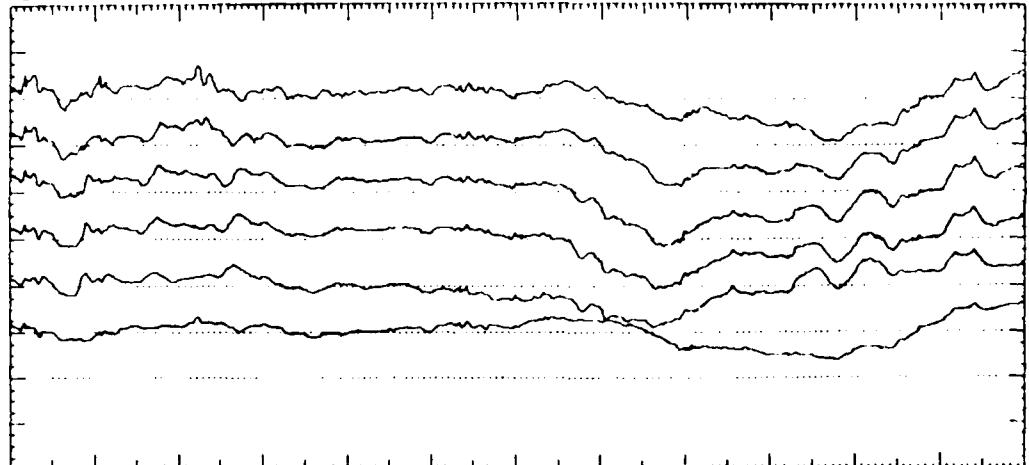
NEU
54455
RPC
54549
CDS
55293
MCL
54441
SUB
53166
LOC
42858

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
17 APR 83 (DAY 83.107) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

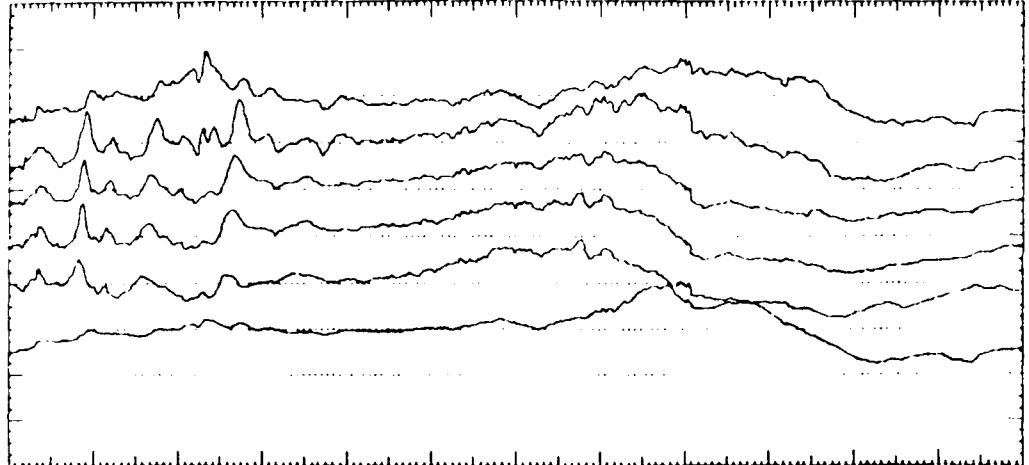
NEU
18284
RPC
18524
CDS
17176
MCL
18169
SUB
18748
LOC
24905



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
53
RPC
59
CDS
37
MCL
154
SUB
138
LOC



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54452
RPC
54442
CDS
55251
MCL
54440
SUB
57162
LOC
42861

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
13 APR 83 (DAY 23.108) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12202
RPC
18523
CDS
17179
MCL
18111
SUB
18749
LOC
24968

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-49
RPC
-63
CDS
-38
MCL
-157
SUB
125
LOC
-4

FLUXGATE Z COMPONENT

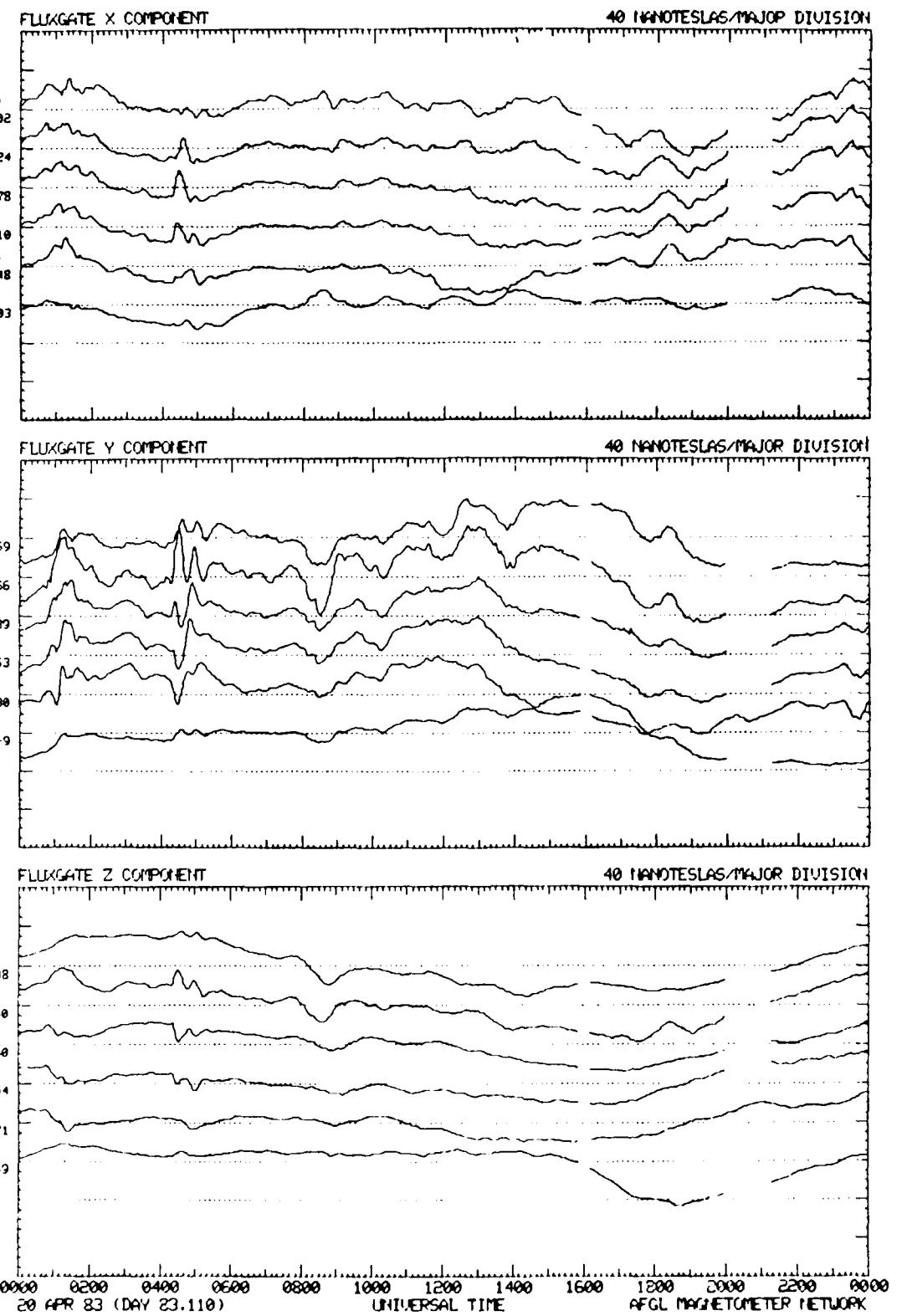
40 NANOTESLAS/MAJOR DIVISION

NEU
54442
RPC
54537
CDS
55240
MCL
54432
SUB
53169
LOC
42846

19 APR 83 (DAY 83.103)

UNIVERSAL TIME

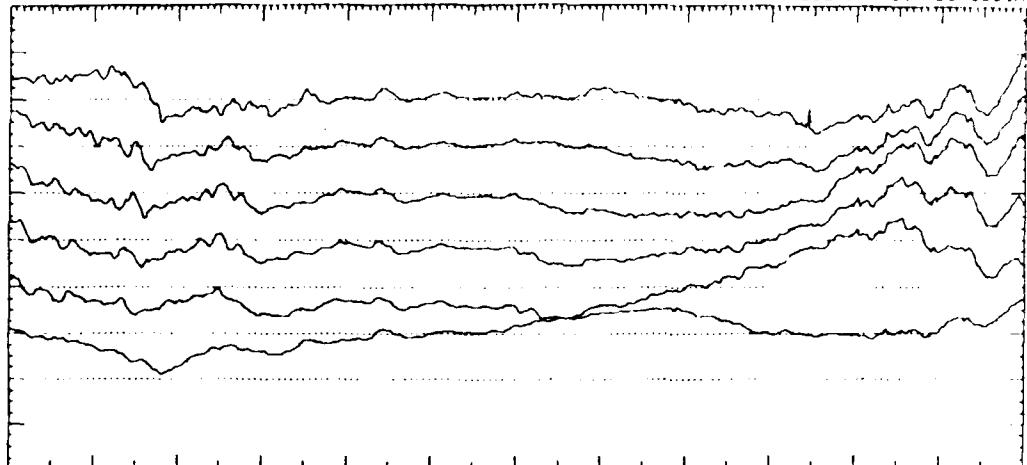
AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

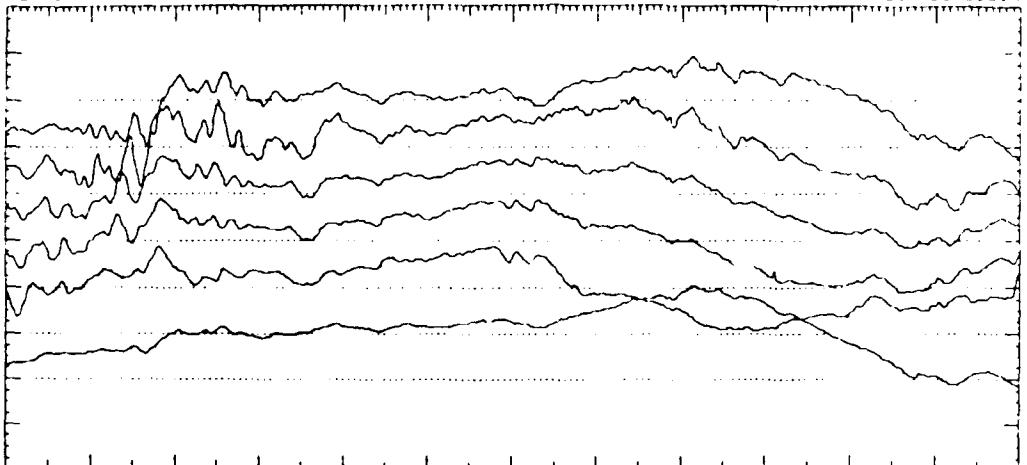
NEU
13204
RPC
18522
CDS
17182
MCL
18111
SUB
18749
LOC
24897



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-59
RPC
-69
CDS
-39
MCL
-157
SUB
-126
LOC
-10

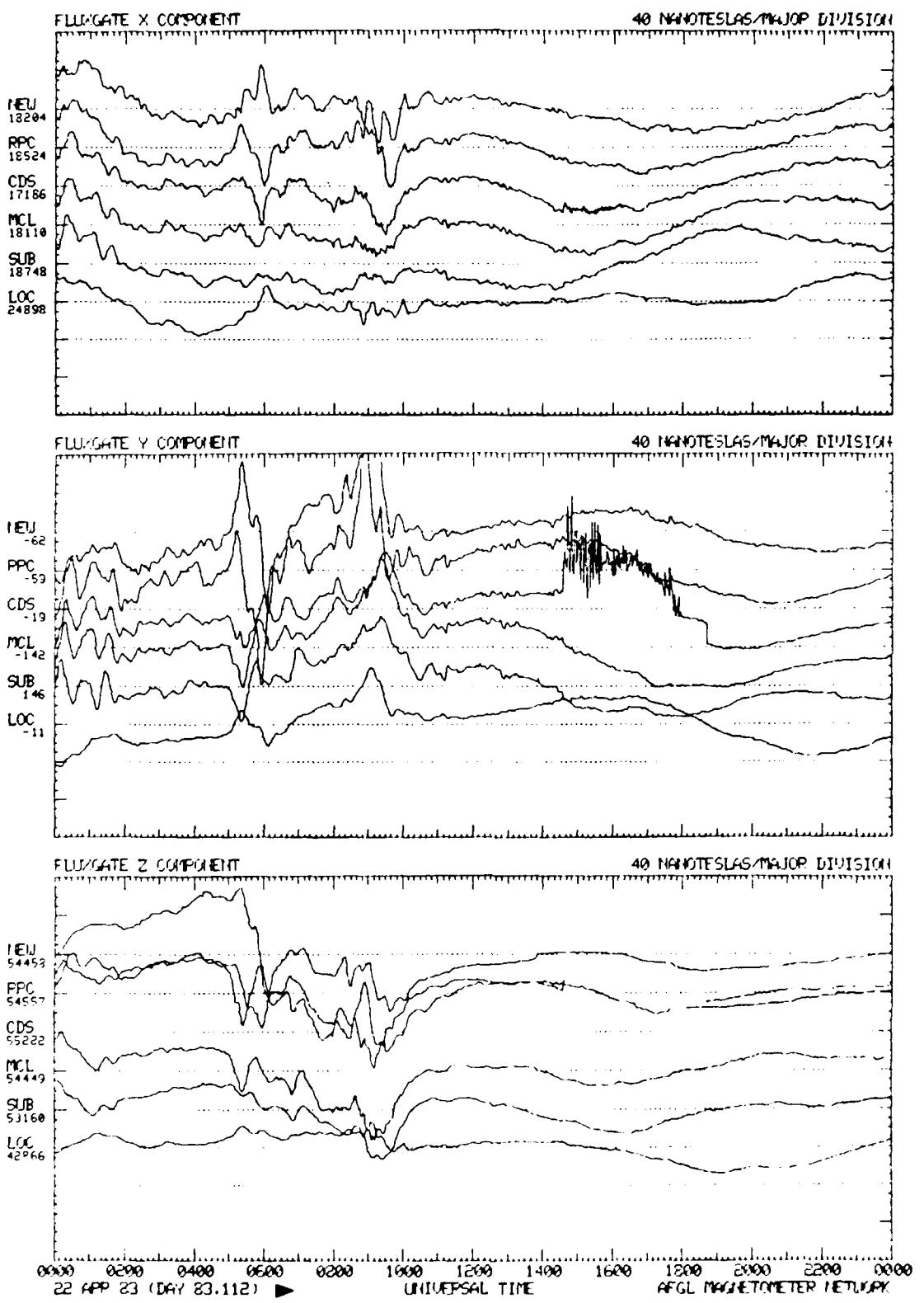


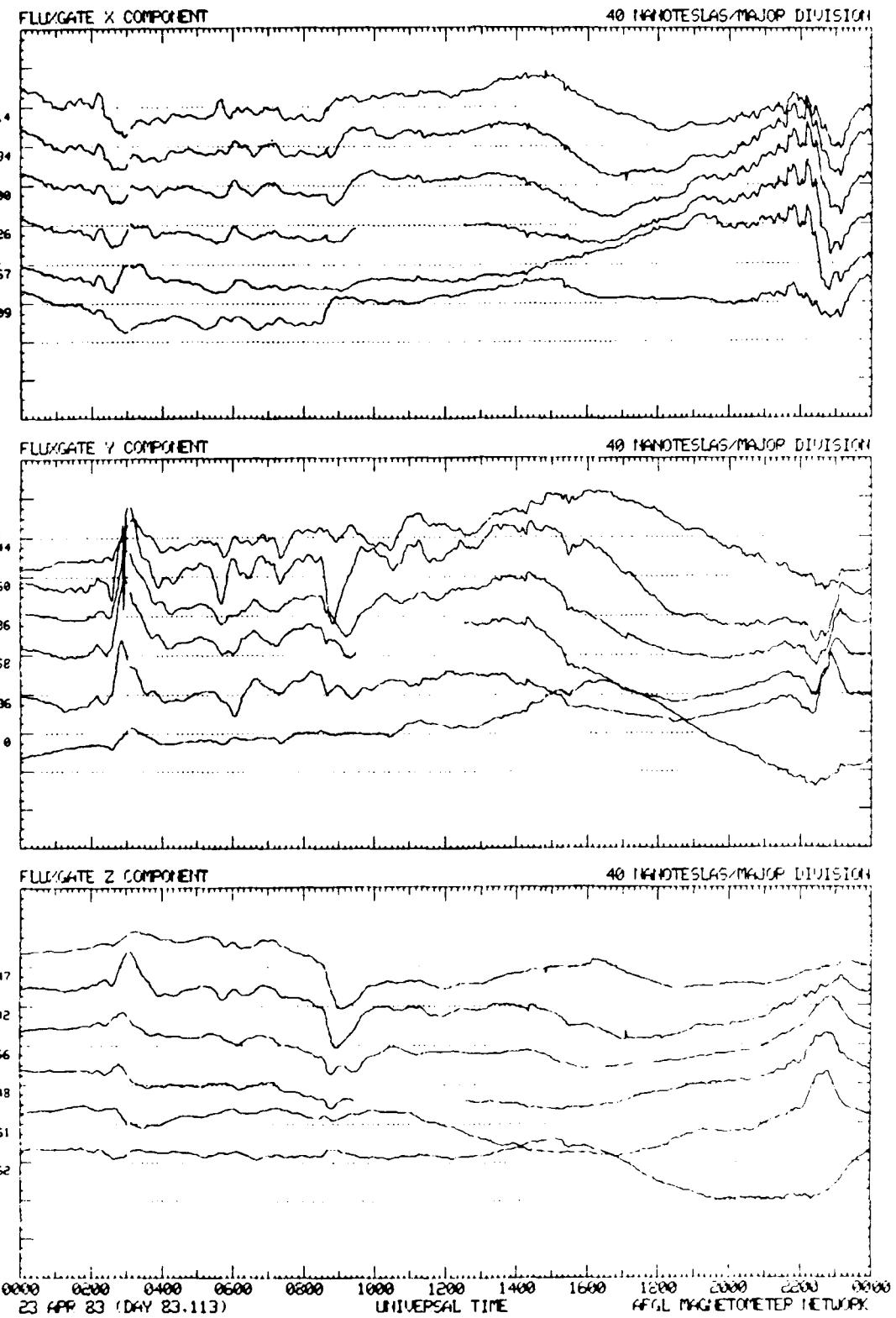
FLUXGATE Z COMPONENT

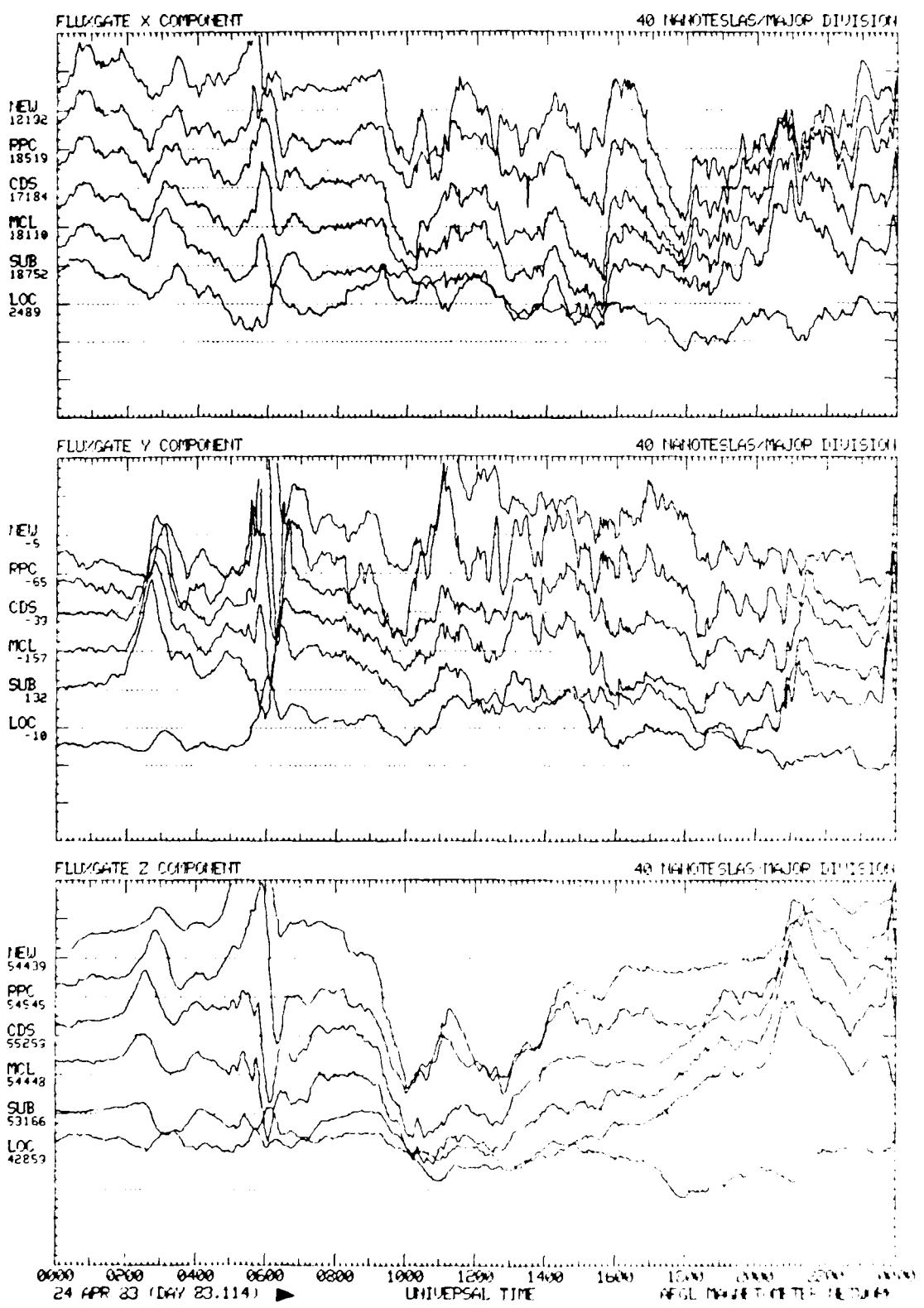
40 NANOTESLAS/MAJOR DIVISION

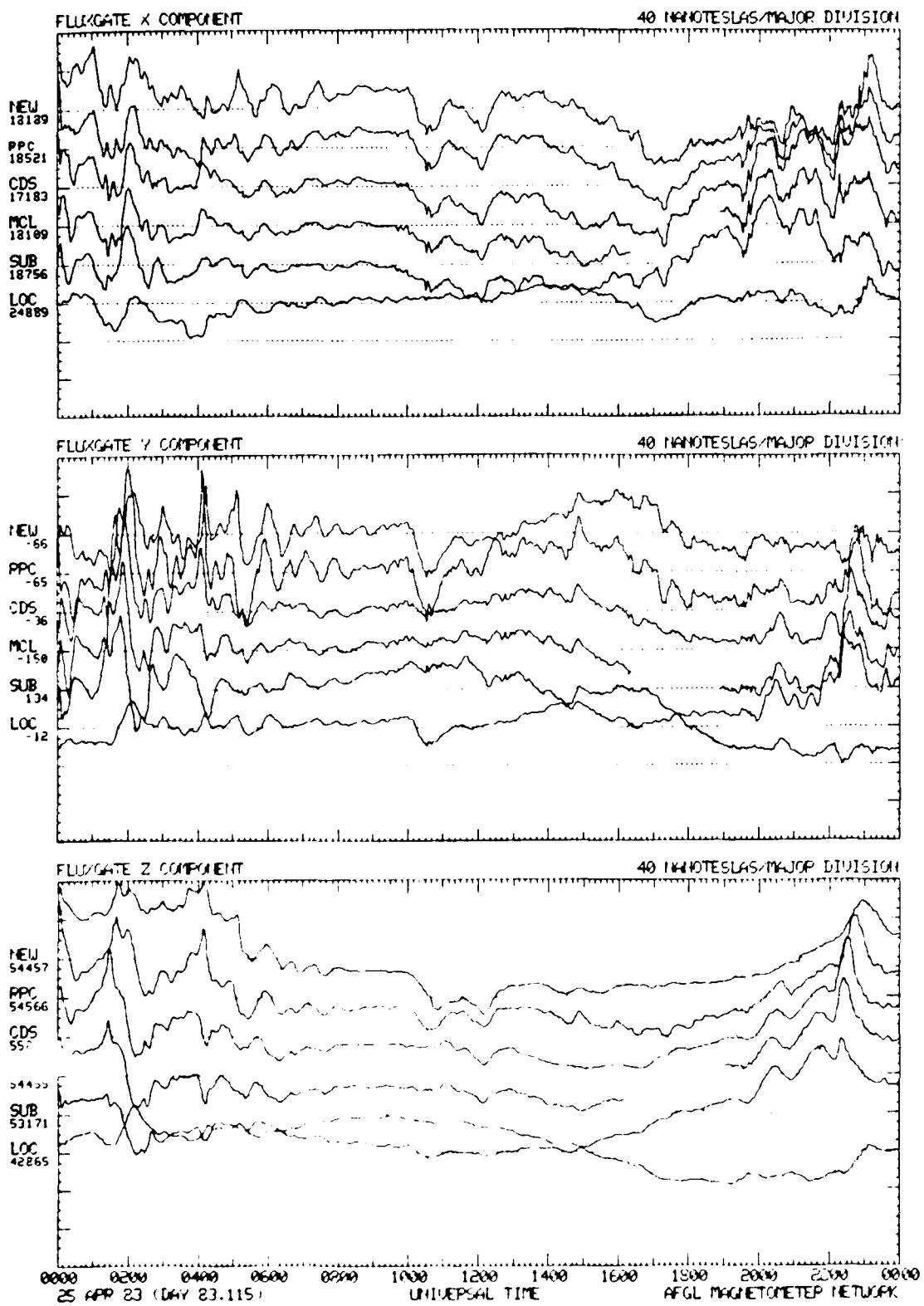
NEU
54468
RPC
54557
CDS
55257
MCL
54455
SUB
53177
LOC
42262

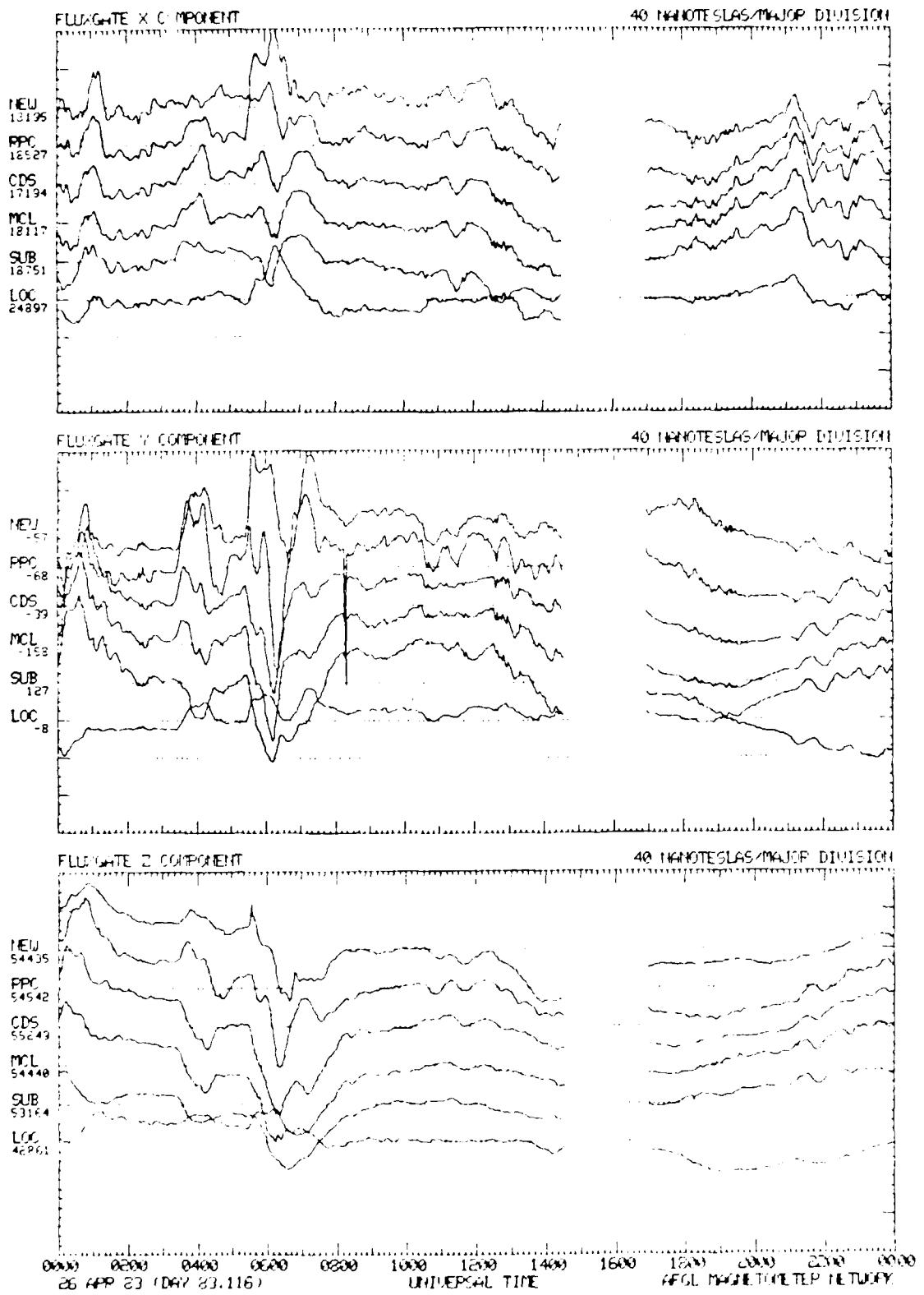
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 APR 83 (DAY 83.111) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

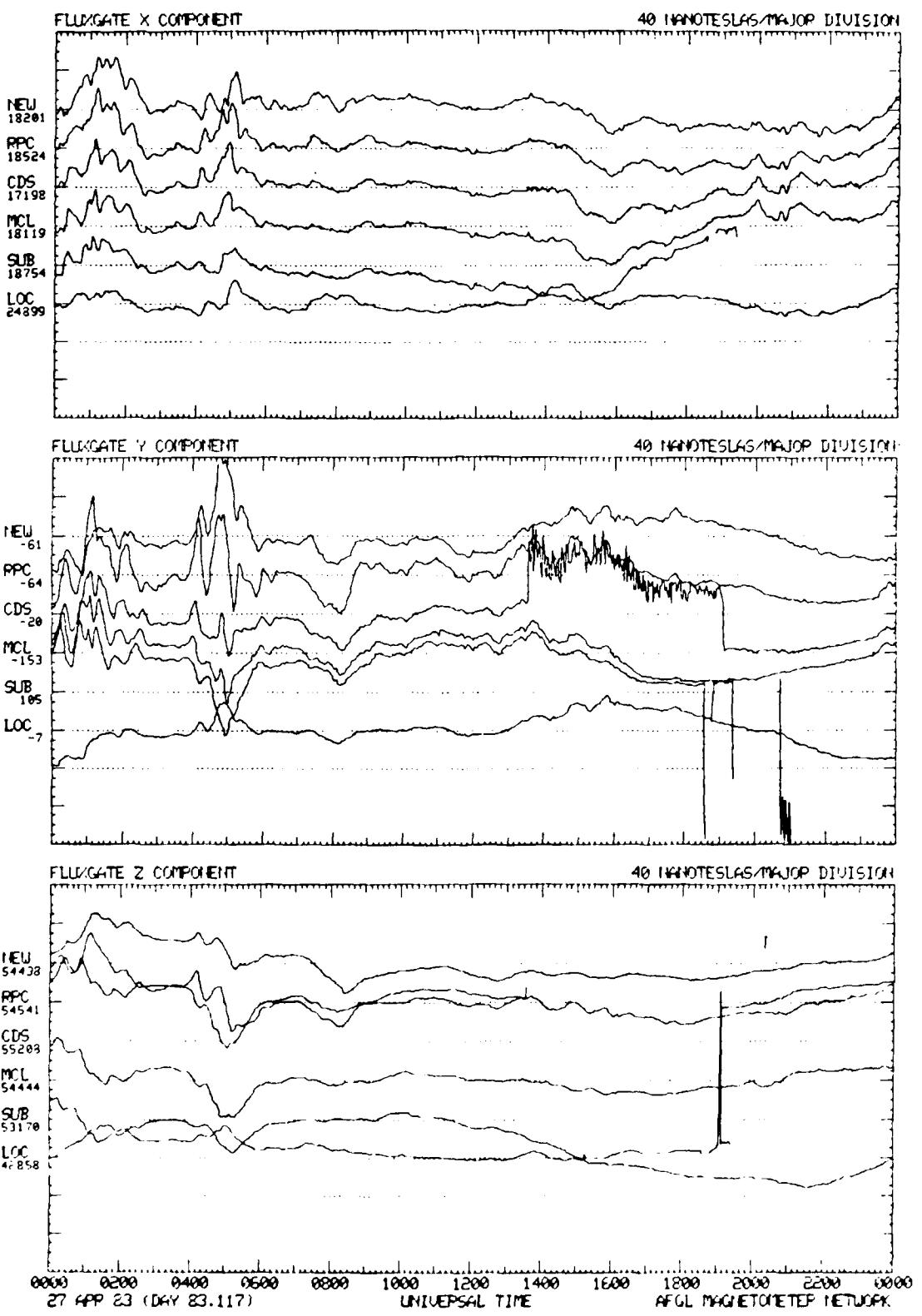


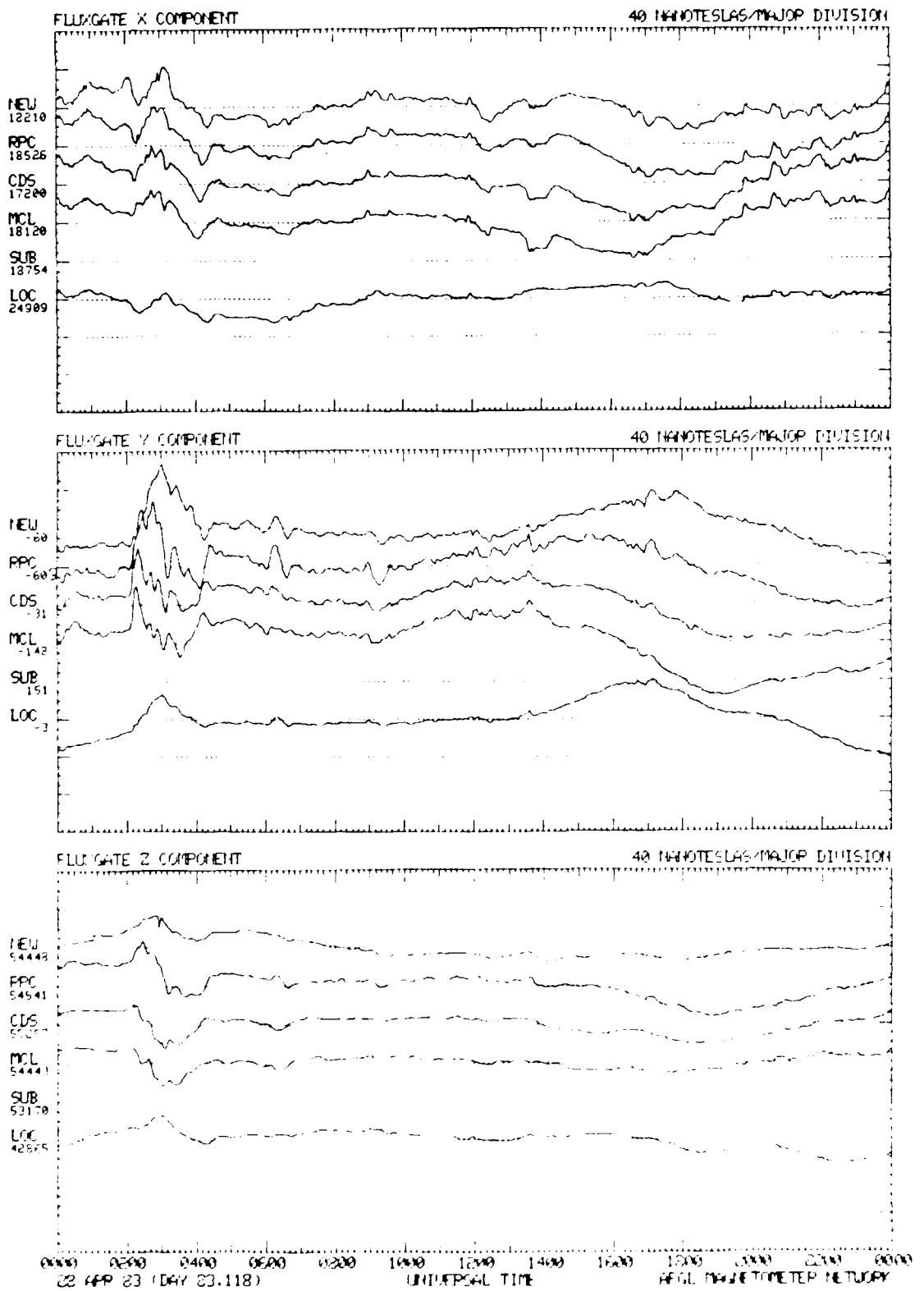












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18178
PPC
18581
CDS
17184
MCL
18187
SUB
18754
LOC
24868

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18174
PPC
1879
CDS
-43
MCL
-161
SUB
-451
LOC
-12

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54403
PPC
54517
CDS
55268
MCL
54457
SUB
53179
LOC
48544

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200
23 APR 23 (DAY 23.113) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
13174
PPC
12507
CDS
17194
MCL
18189
SUB
18754
LOC
24284

FLUGATE Y COMPONENT

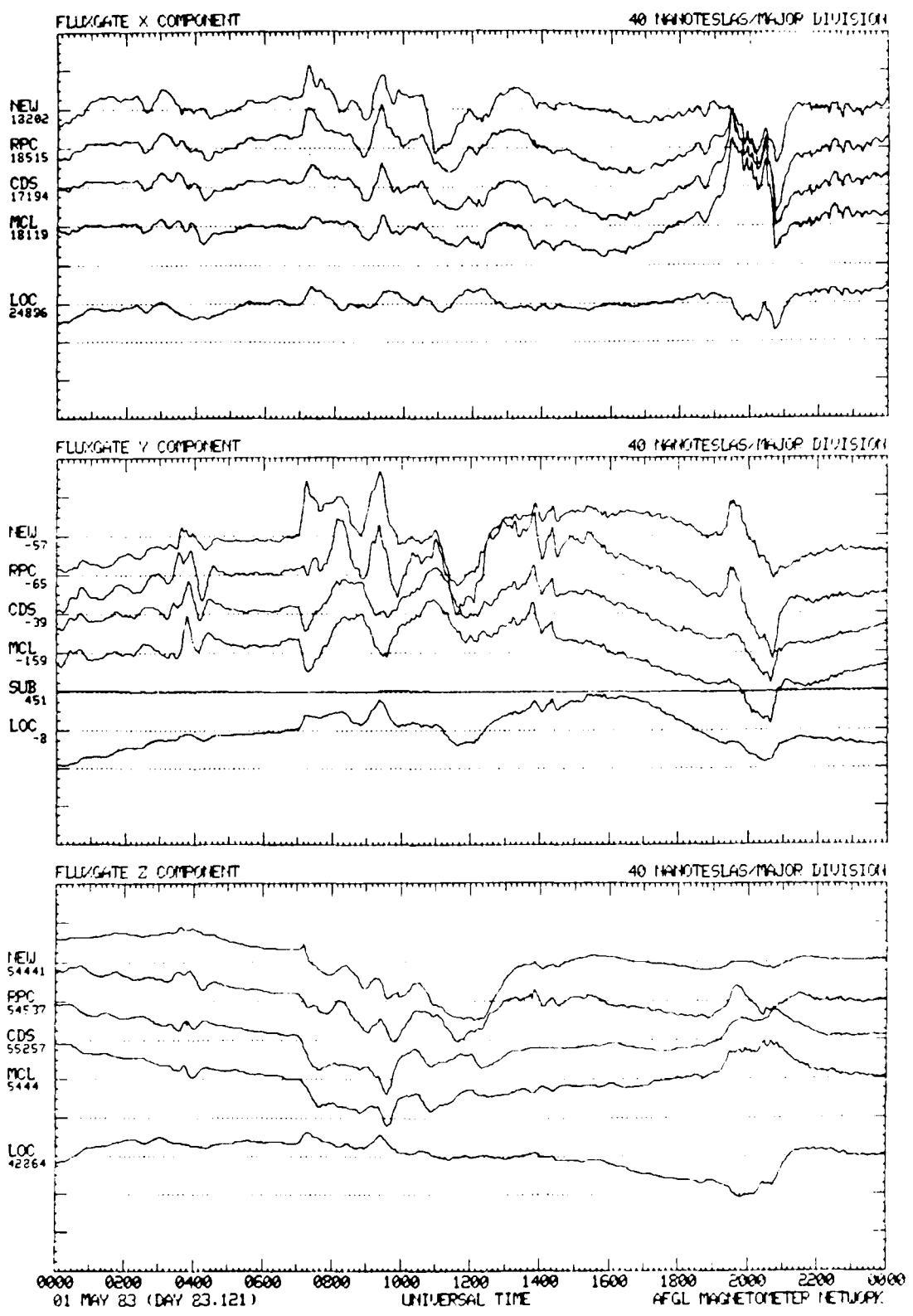
40 NANOTESLAS/MAJOR DIVISION

NEU
-43
PPC
-61
CDS
-3
MCL
-156
SUB
452
LOC
9

FLUGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54437
PPC
54547
CDS
55257
MCL
54443
SUB
53178
LOC
428480000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
00 APR 83 (DAY 23.120) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13222
RPC
12533
CDS
17206
MCL
18134

LOC
24913

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-59
RPC
-64
CDS
-34
MCL
-158
SUB
451
LOC
-7

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54443
RPC
54538
CDS
5525
MCL
54436

LOC
42263

0600 0800 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
02 MAY 23 (DAY 23.122)

UNIVERSEAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
16237RPC
12553CDS
17225MCL
18149LOC
24929

FLUXGATE Y COMPONENT

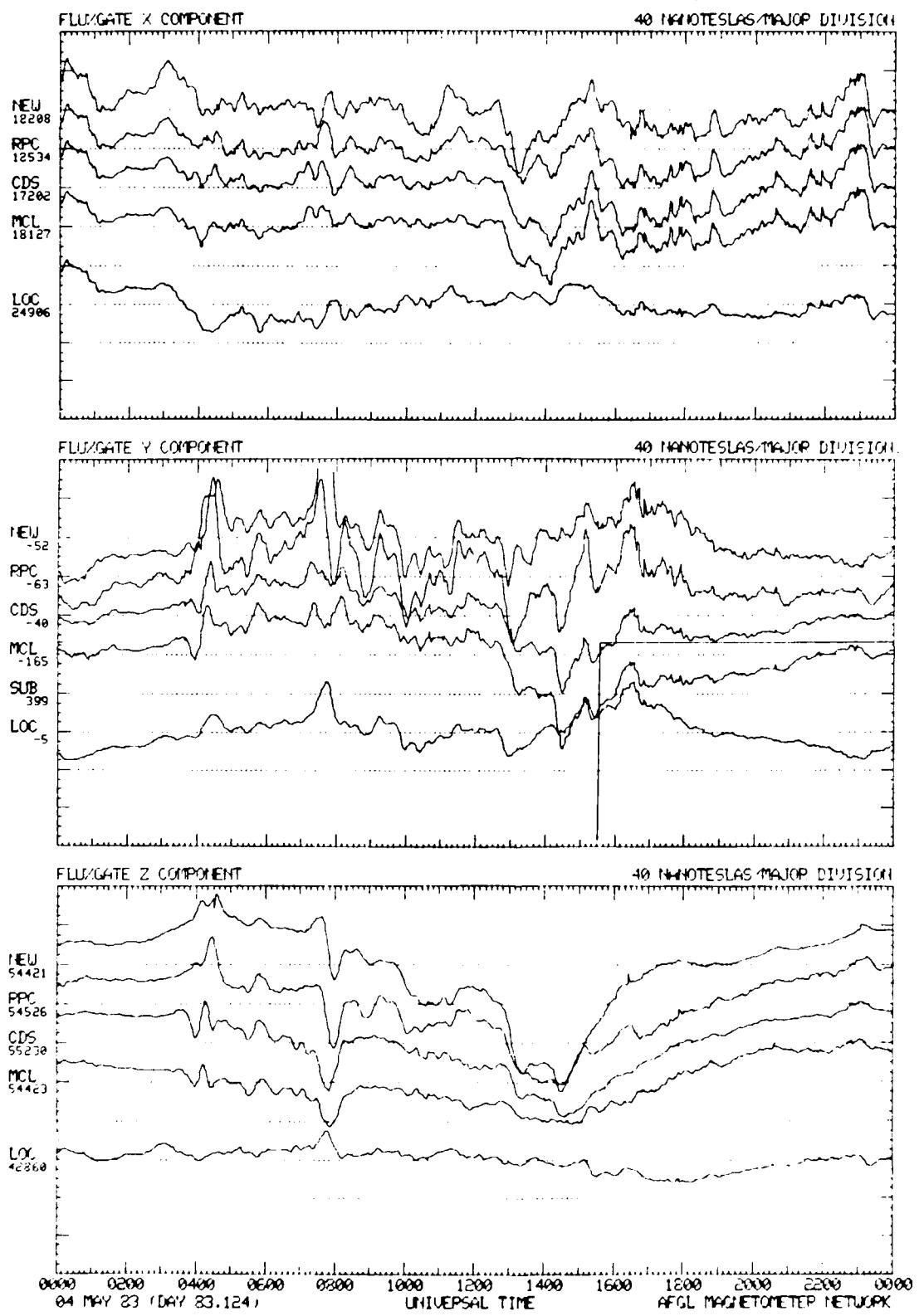
40 NANOTESLAS/MAJOR DIVISION

NEU
-61RPC
66CDS
-35MCL
-153SUB
491LOC
7

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

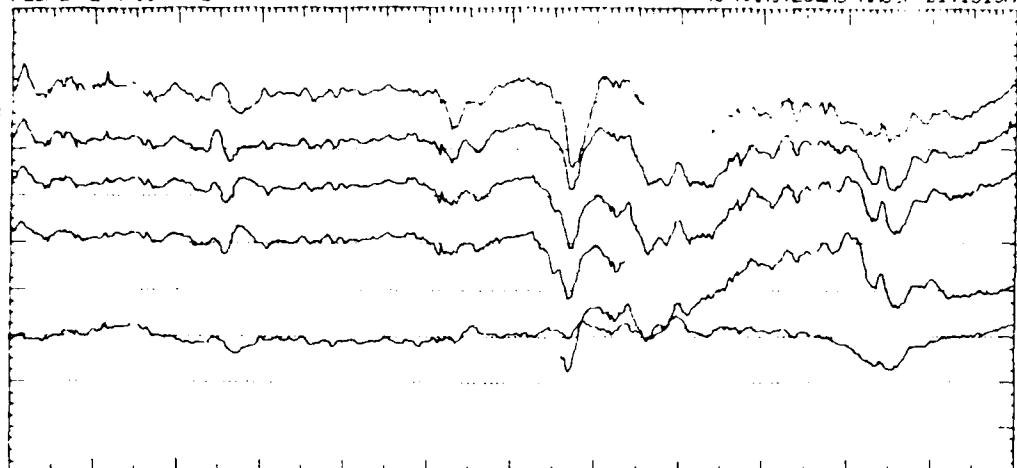
NEU
54432RPC
54538CDS
55246MCL
54435LOC
423660000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 MAY 83 (DAY 83.123) UNIVERSEAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

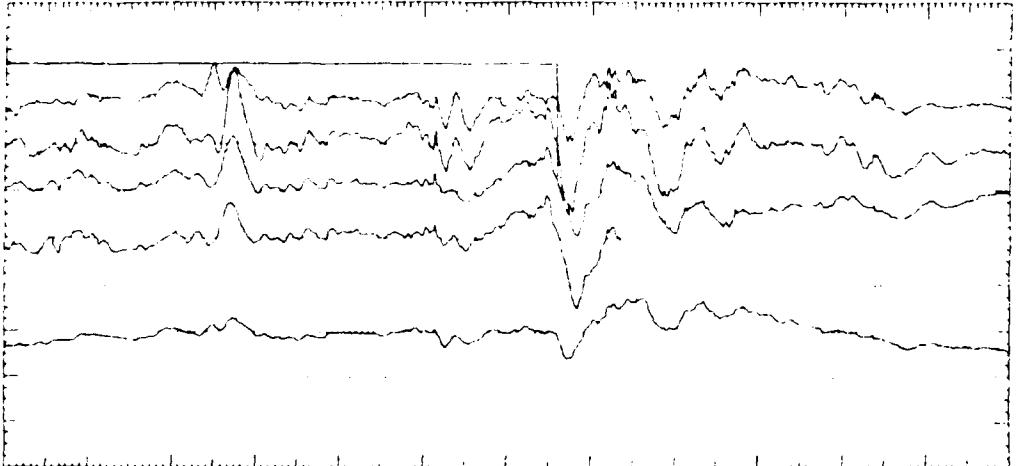
NEU
18213
PPC
18538
CDS
17199
MCL
18125
SUB
18758
LOC
24984



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

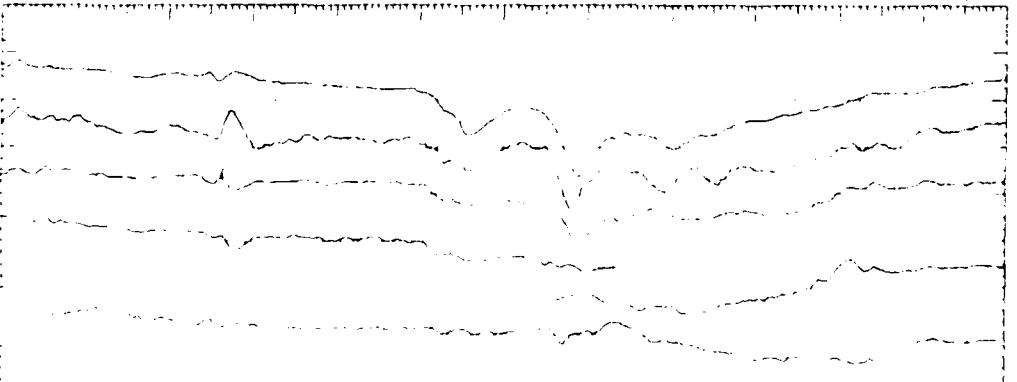
NEU
-50
PPC
-52
CDS
-40
MCL
-150
SUB
263
LOC
-2



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
544-1
PPC
544-2
CDS
544-4
MCL
544-6
SUB
544-8
LOC
544-10

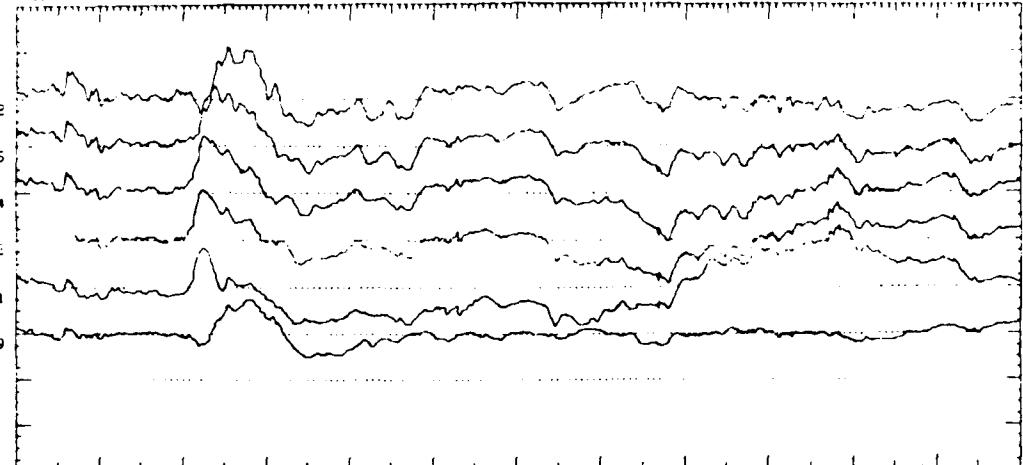


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400 0000
05 MAY 23 (DAY 123,125) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

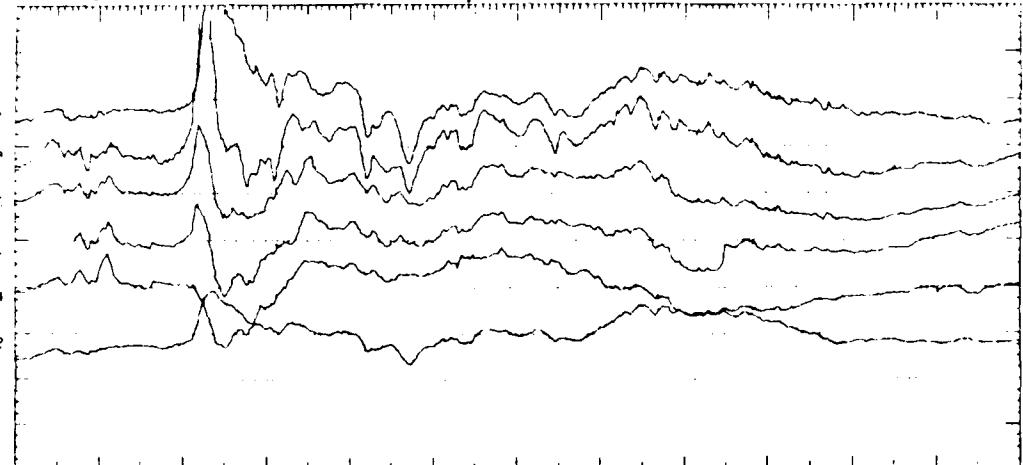
NEW
13222
PPC
18545
CDS
17204
MOL
17151
SUB
18751
LOC
24969



FLUGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13222
PPC
18545
CDS
17204
MOL
17151
SUB
18751
LOC
24969



FLUGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54435
PPC
54541
CDS
55239
MOL
54429
SUB
53178
LOC
42801

0000 0600 0600 0200 1000 1200 1400 1600 1800 2000 2200 0000
06 MAY 63 (DAY 83.126) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12222
RPC
12546
CDS
17214
MCL
18140
SUB
18759
LOC
24915

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

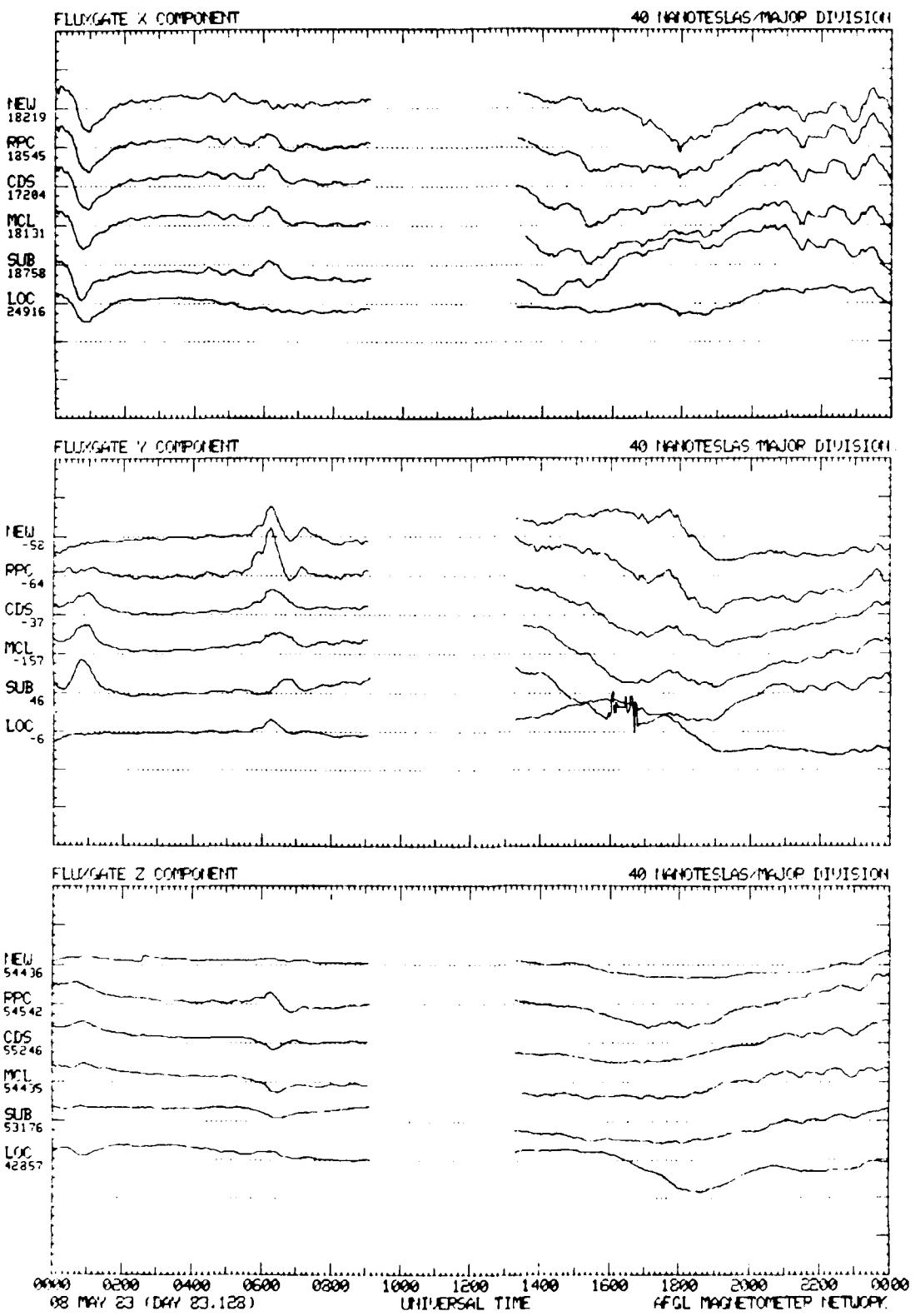
NEW
12222
RPC
12546
CDS
17214
MCL
18140
SUB
18759
LOC
24915

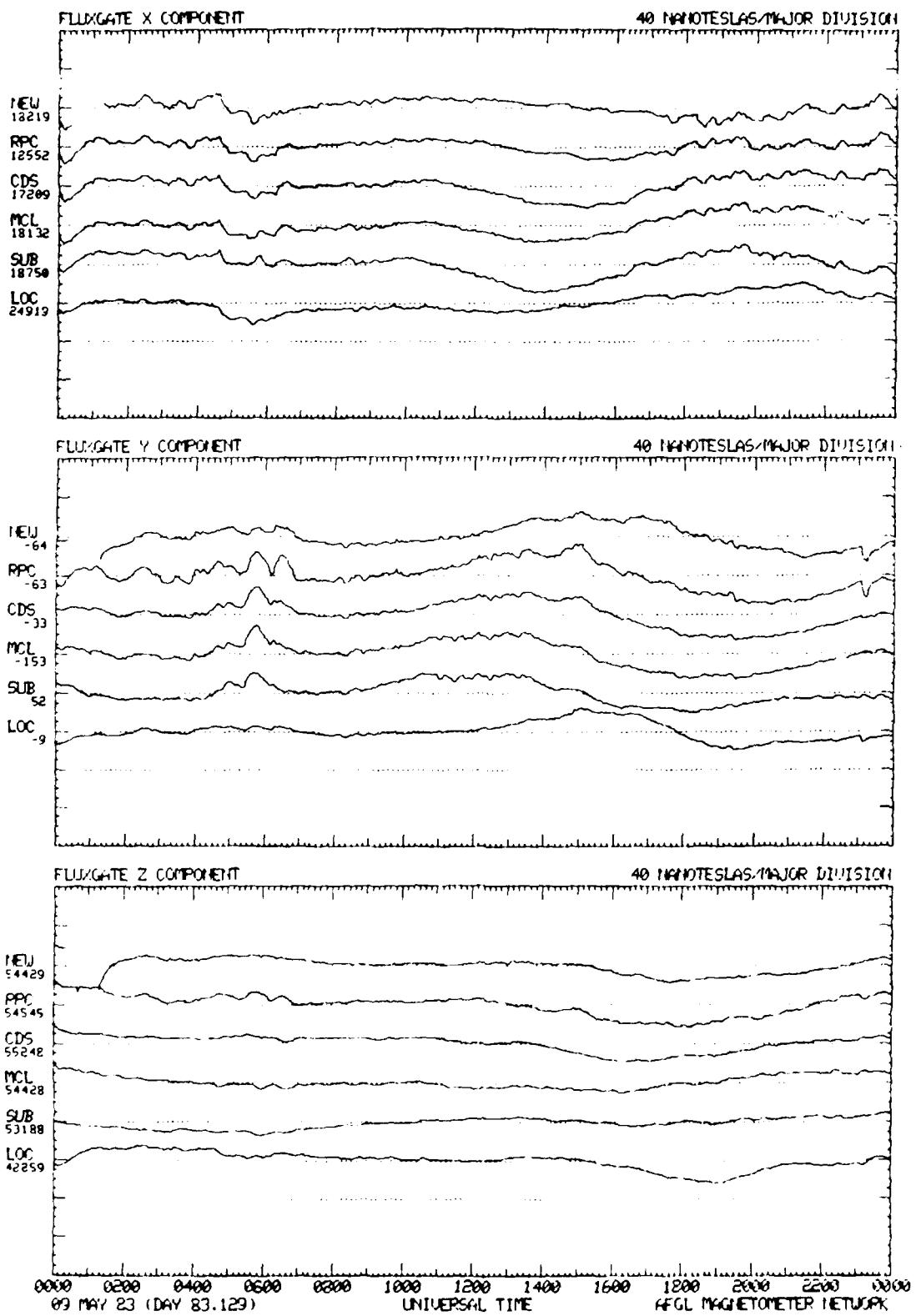
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54430
RPC
54539
CDS
55126
MCL
54435
SUB
53181
LOC
45

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
07 MAY 83 (DAY 83.127) UNIVERSAL TIME AFGL MAGNETOMETER NET/SF

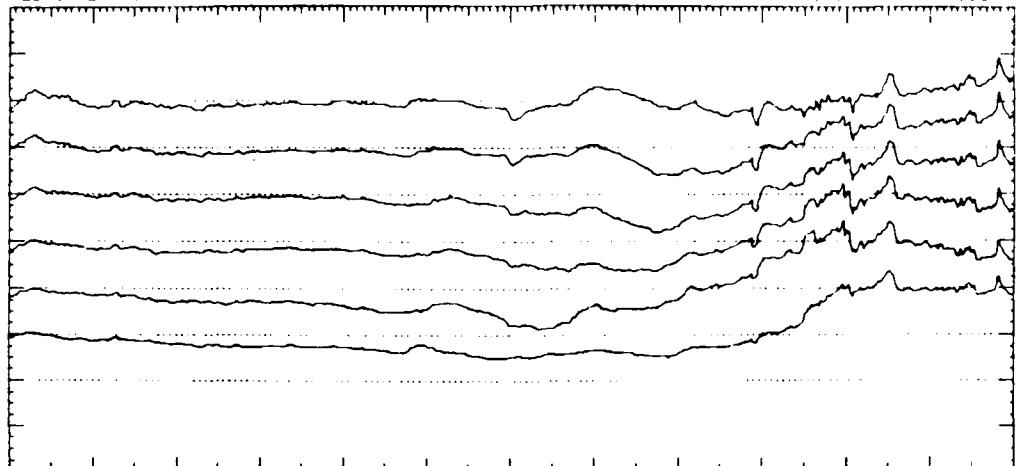




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

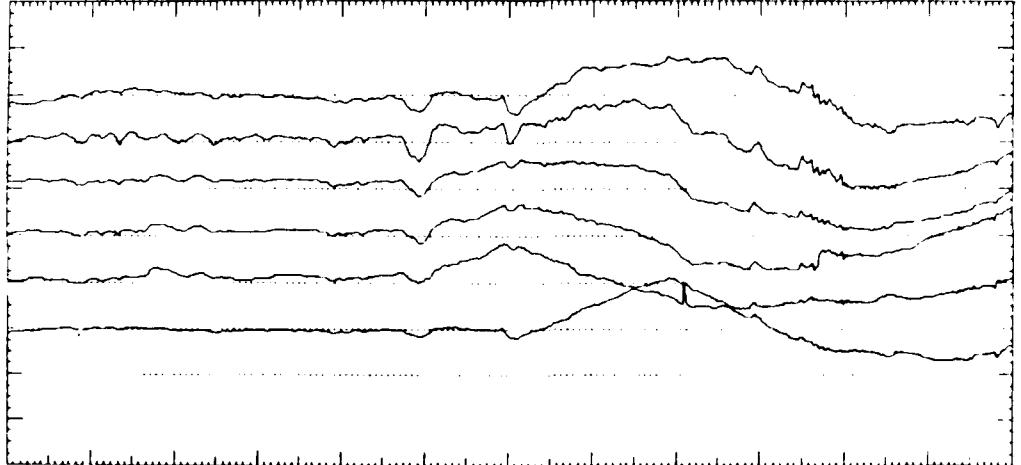
NEW
18227
RPC
12556
CDS
17218
MCL
18141
SUB
18746
LOC
24925



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-62
RPC
-67
CDS
-39
MCL
-157
SUB
42
LOC
-9



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54423
RPC
54536
CDS
55244
MCL
54427
SUB
53191
LOC
42257

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2000
10 MAY 23 (DAY 23.130) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
1322
RPC
18540
CDS
17211
MCL
18135
SUB
18740
LOC
24911

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-49
RPC
-56
CDS
-27
MCL
-125
SUB
-46
LOC
1

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54415
RPC
54525
CDS
55229
MCL
54419
SUB
53190
LOC
42251

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
11 MAY 23 (DAY 83.131) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEW
12199
RPC
13512
CDS
17190
MCL
18108
SUB
18705
LOC
24823

FLUXGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

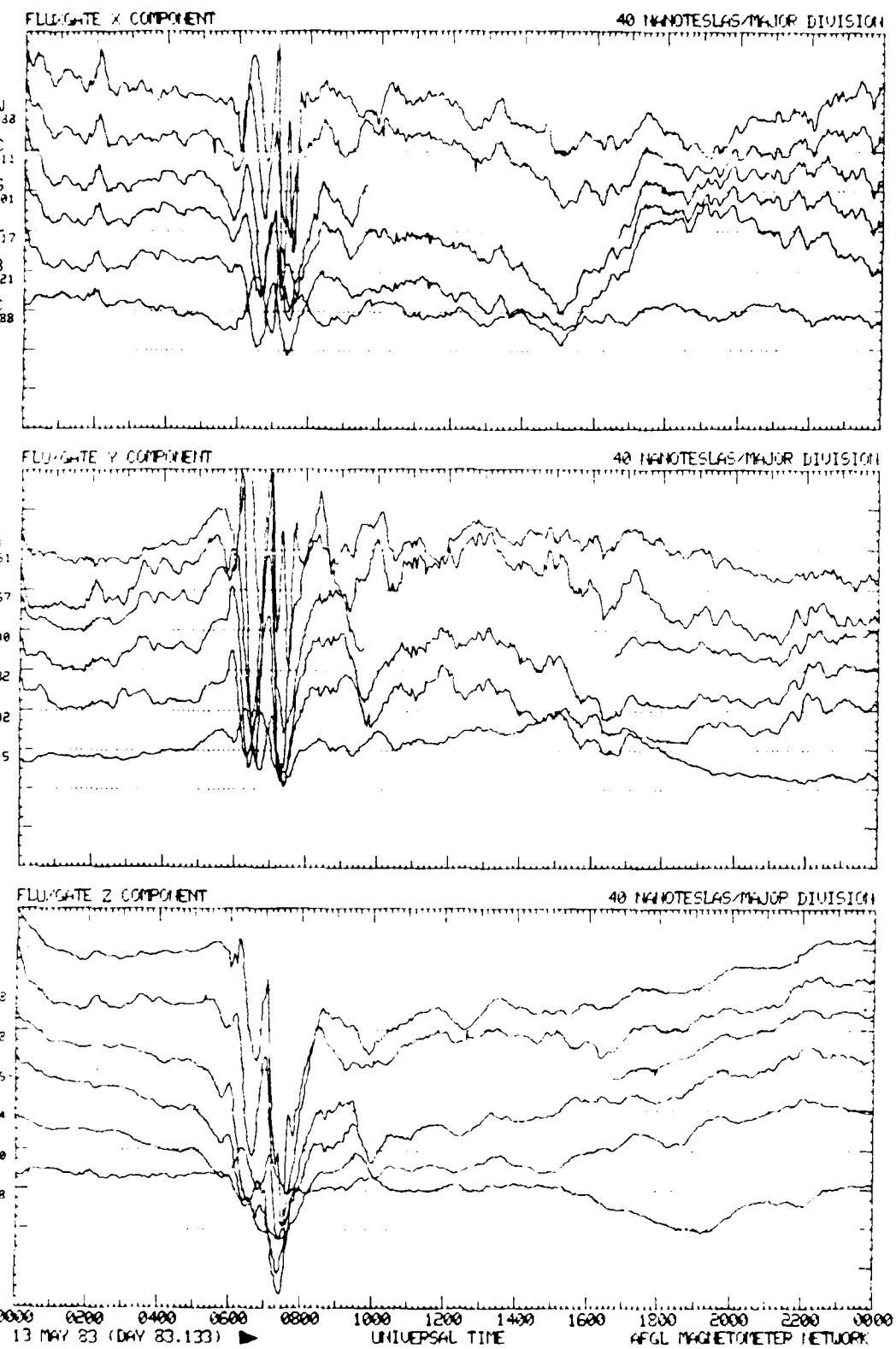
NEW
-47
RPC
-55
CDS
-27
MCL
-129
SUB
44
LOC
2

FLUXGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEW
54438
RPC
54535
CDS
55442
MCL
54441
SUB
53187
LOC
42867

0000 0600 0400 0800 0200 1000 1200 1400 1600 1800 2000 2200 0000
12 MAY 23 (DAY 23.132) ► UNIVERSAL TIME AFGL MAGNETOMETER NET/JSPY



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12293
PPC
12518
CDS
17193
MCL
13116
SUB
18723
LOC
24888

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-60
PPC
-58
CDS
-26
MCL
-131
SUB
44
LOC
-10

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

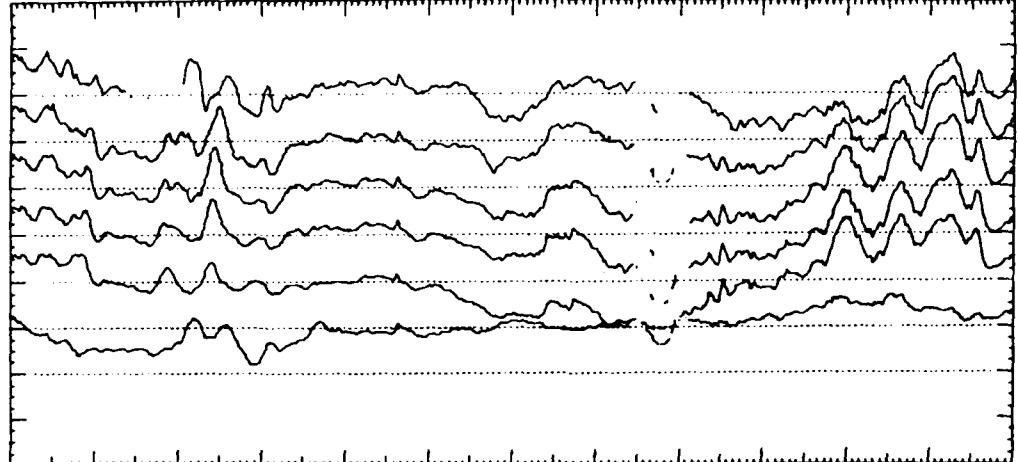
NEW
54444
PPC
54545
CDS
55129
MCL
54434
SUB
53180
LOC
46255

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300
14 MAY 23 (DAY 23.134) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

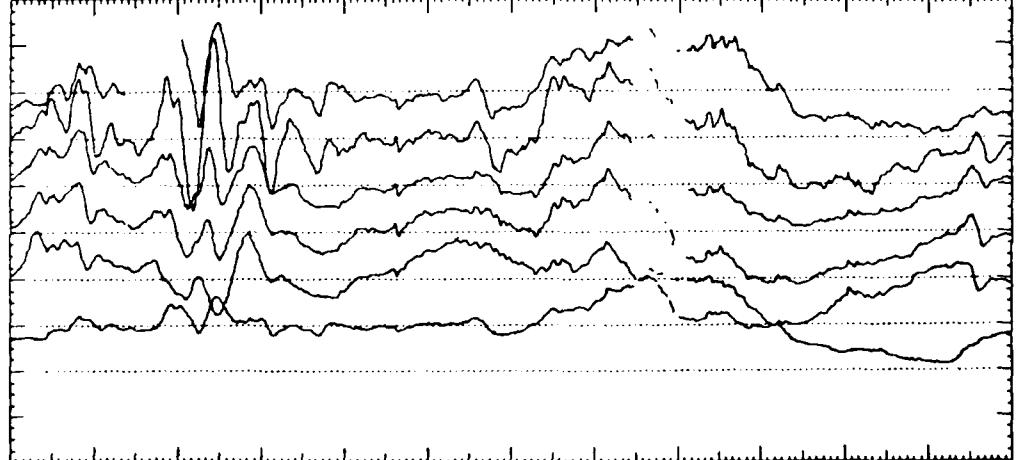
NEW
18211
RPC
18531
CDS
17201
MCL
18123
SUB
18726
LOC
24903



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

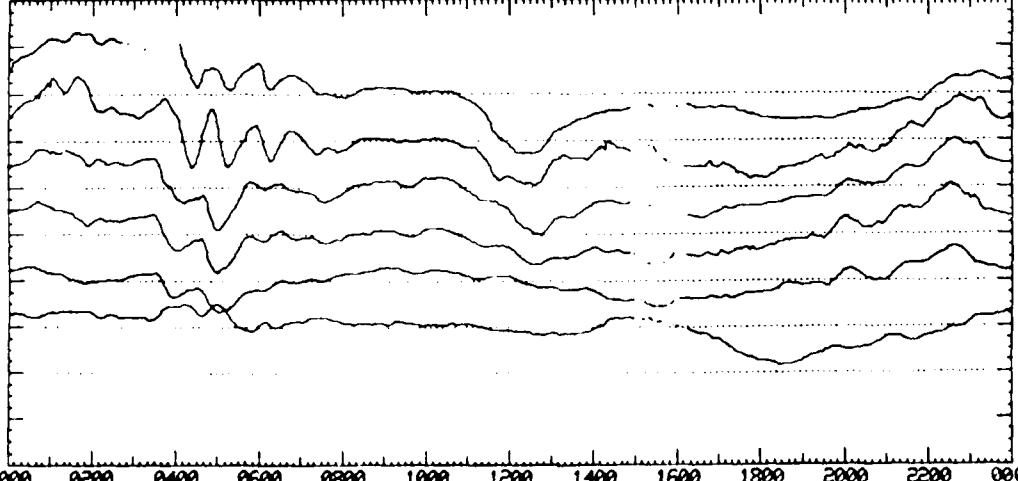
NEW
-65
RPC
-63
CDS
-39
MCL
-131
SUB
48
LOC
-13



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54436
RPC
54544
CDS
55251
MCL
54436
SUB
53188
LOC
42269



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 MAY 83 (DAY 83.135)

UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
13210
PPC
12528
CDS
17201
MCL
18124
SUB
18734
LOC
24903

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

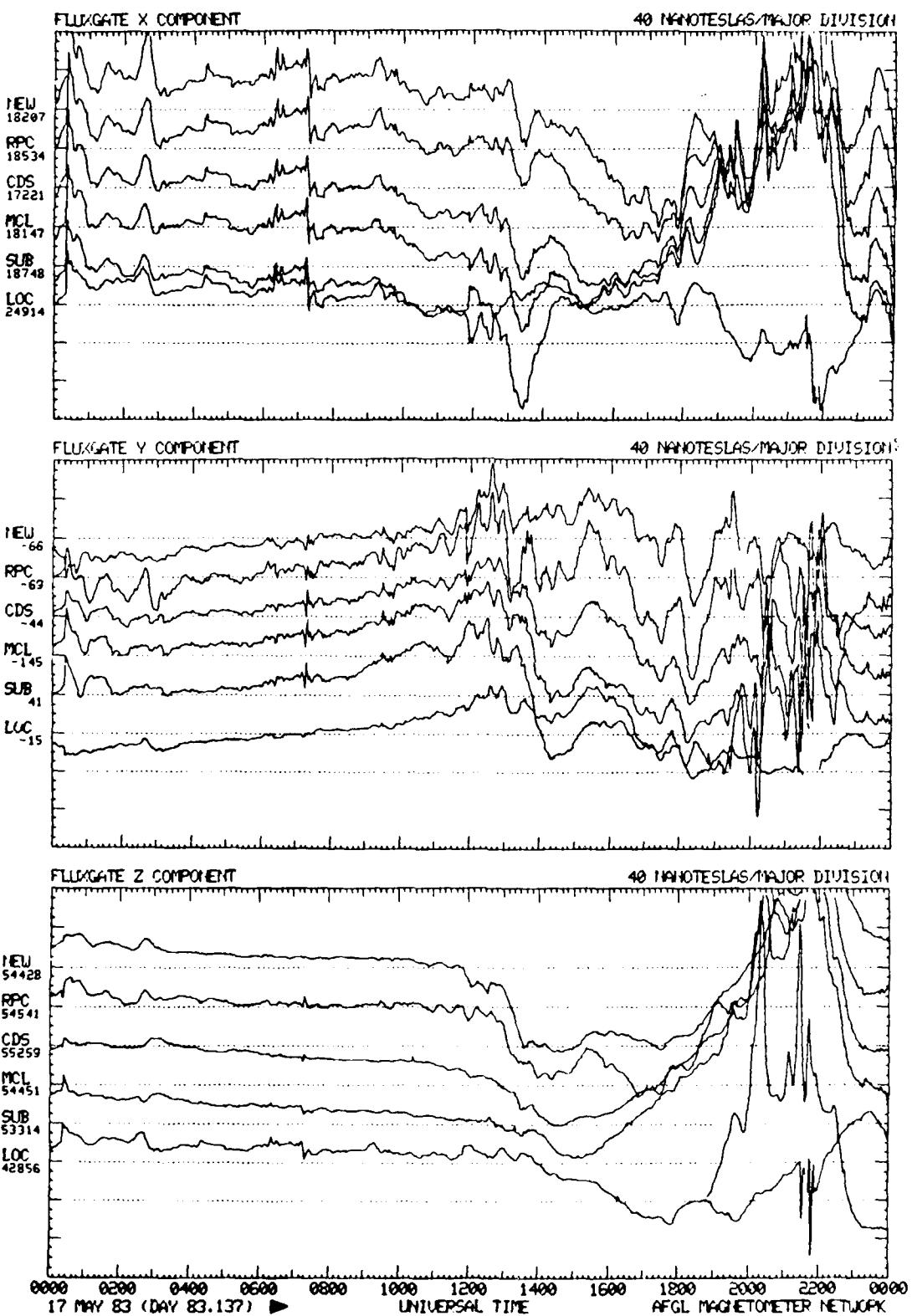
NEU
-60
PPC
-61
CDS
-26
MCL
-135
SUB
44
LOC
-9

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54432
PPC
54541
CDS
55227
MCL
54429
SUB
53183
LOC
42264

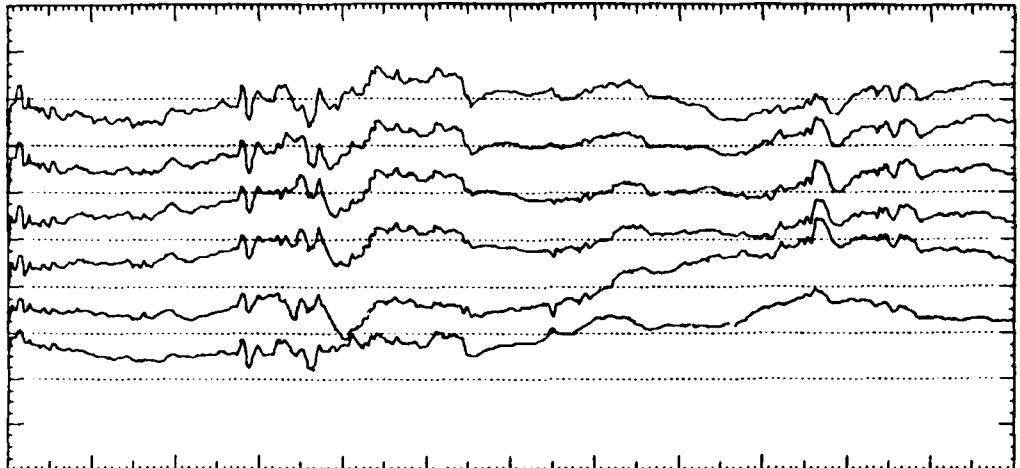
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 MAY 23 (DAY 83.136) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

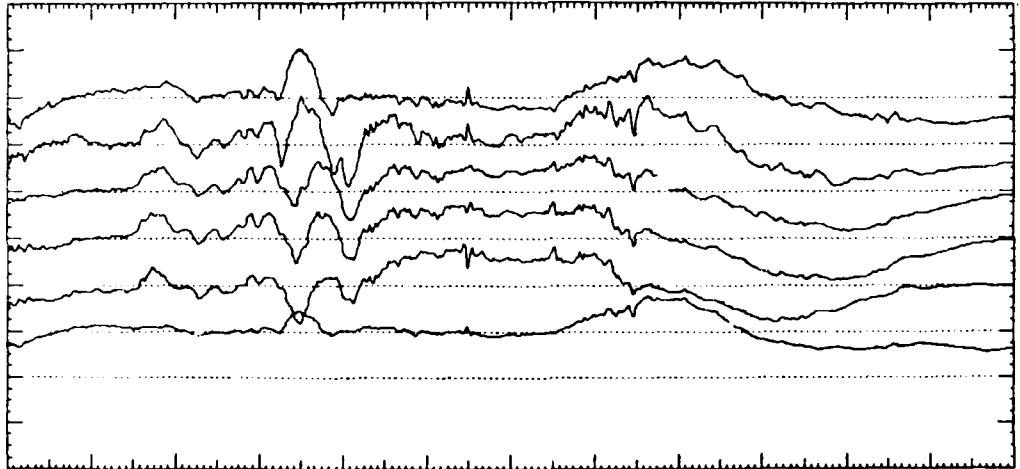
NEW
18208
RPC
18530
CDS
1719
MCL
18122
SUB
18721
LOC
24981



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

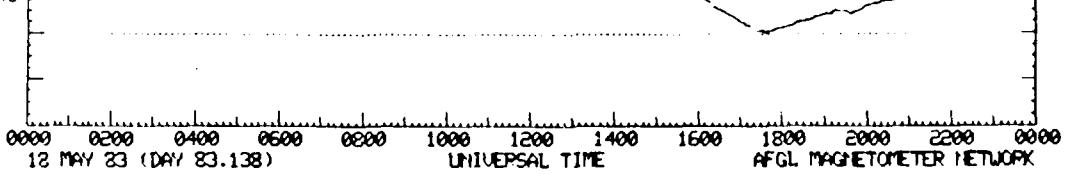
NEW
-55
RPC
-57
CDS
-37
MCL
-140
SUB
39
LOC
-5



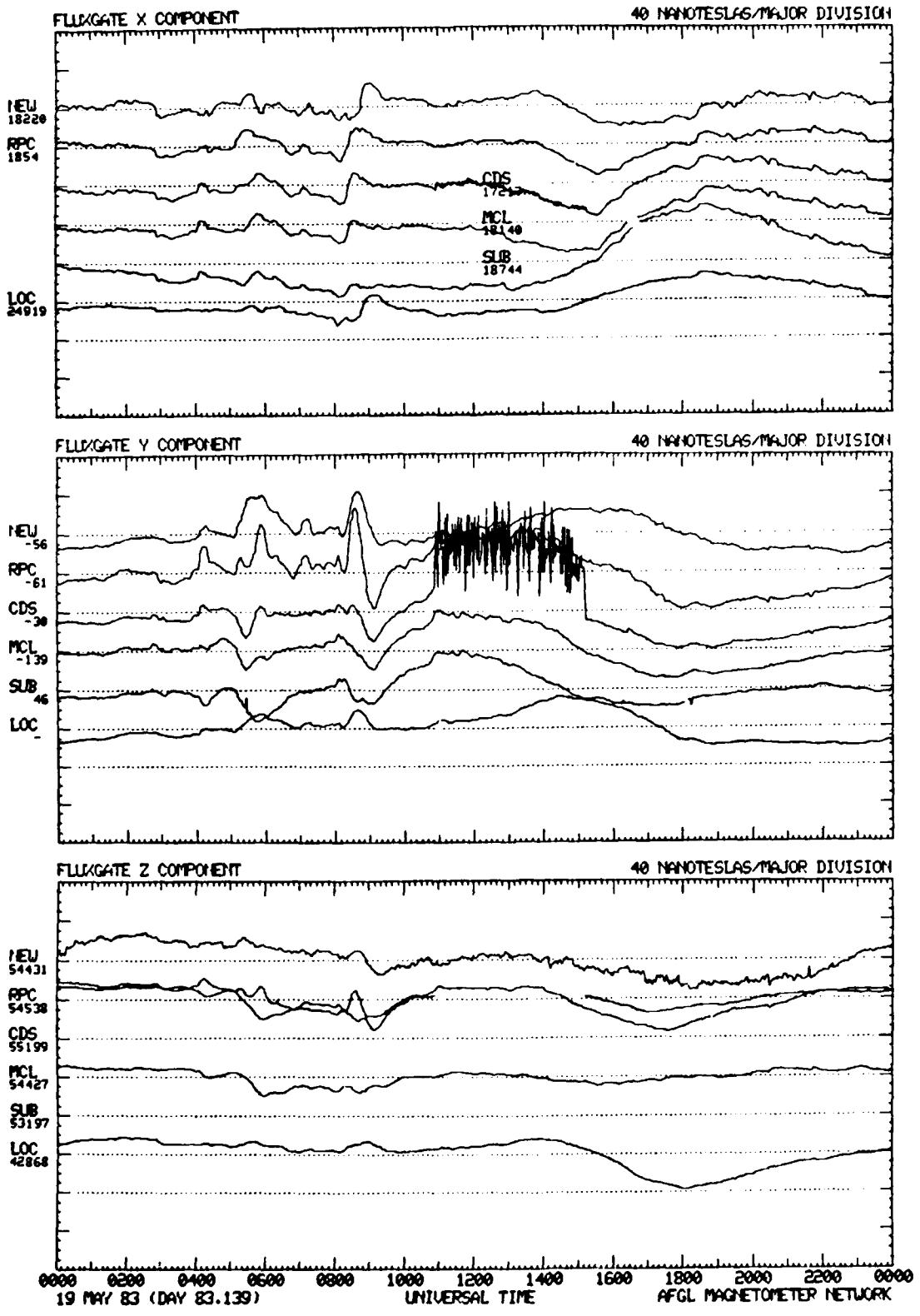
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54440
RPC
54540
CDS
55244
MCL
54430
SUB
53197
LOC
42872



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
12 MAY 83 (DAY 83.138)



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12235
RPC
18556
CDS
17226
MCL
18155
SUB
18759
LOC
24925
TPA
25409

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

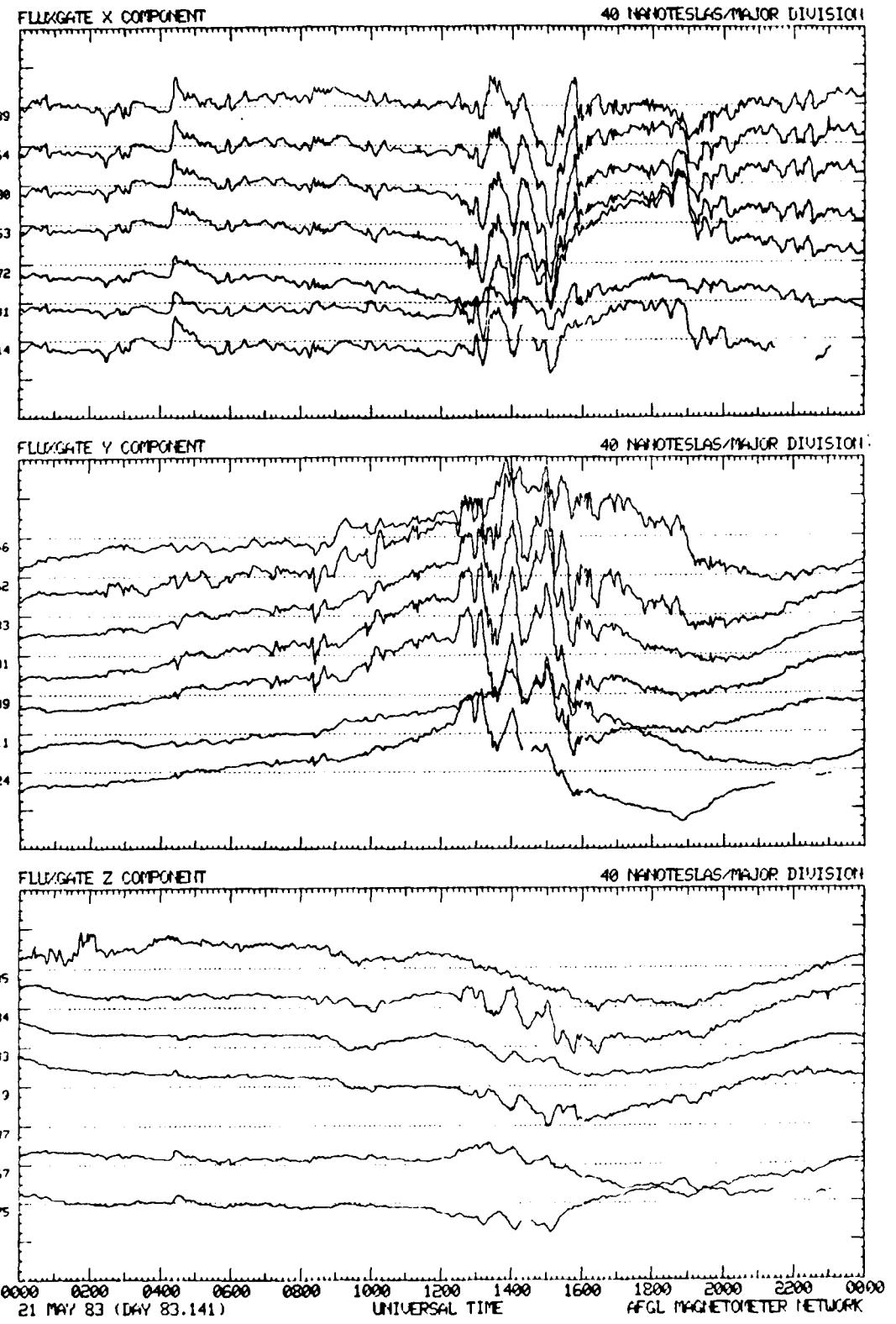
NEU
-61
RPC
-64
CDS
-40
MCL
-141
SUB
49
LOC
-10
TPA
-68

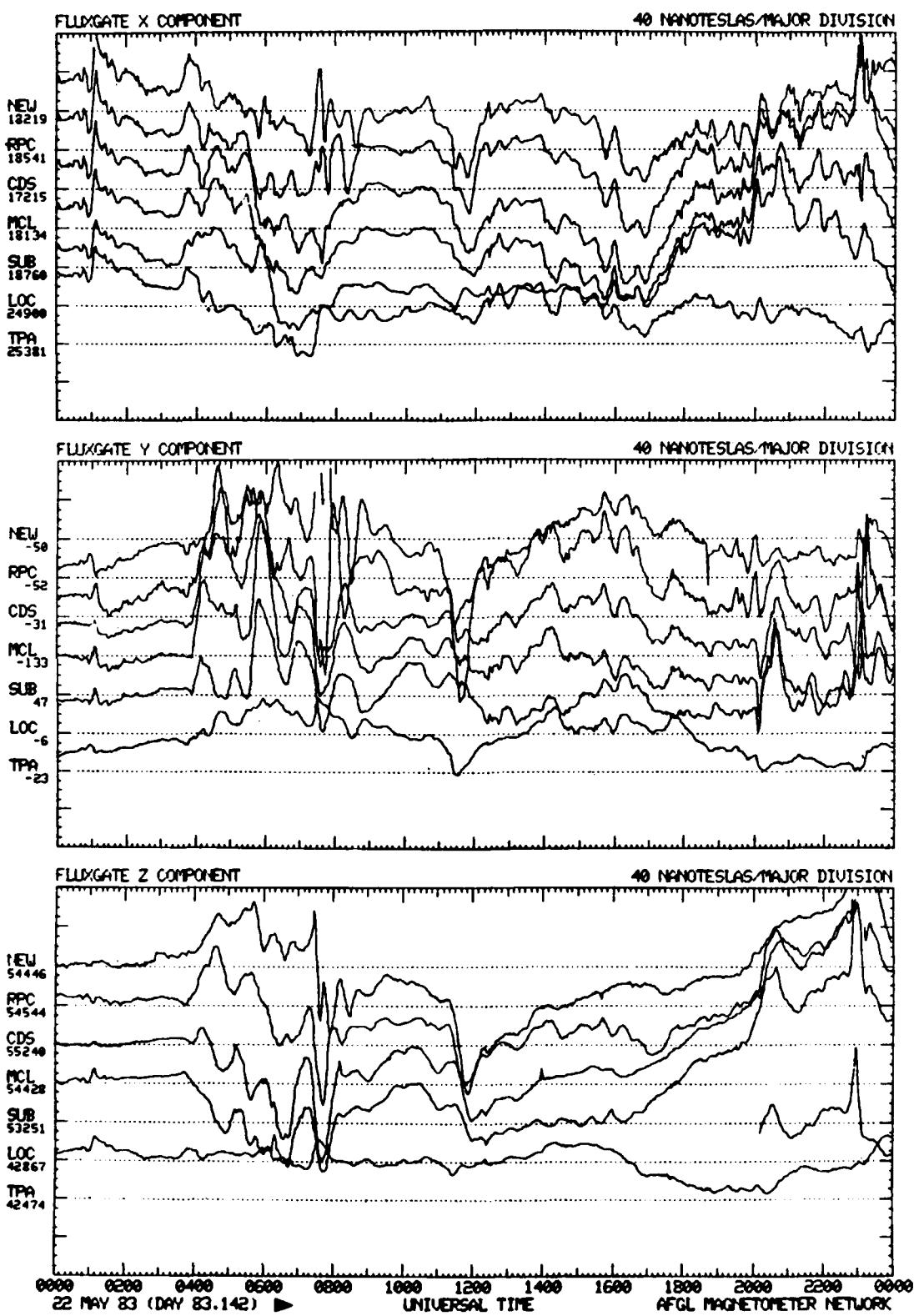
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54436
RPC
54540
CDS
55245
MCL
54435
SUB
53197
LOC
42866
TPA
42495

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 MAY 83 (DAY 83.140) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

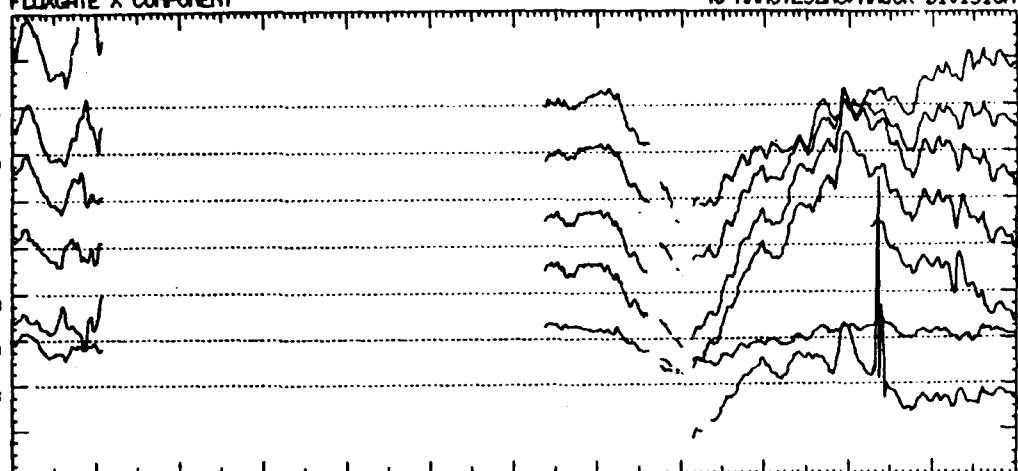




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

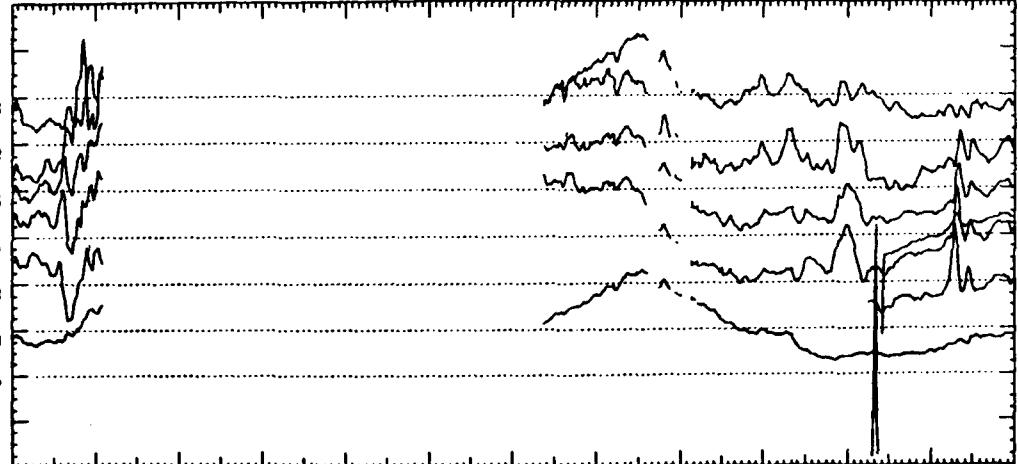
NEU
18214
RPC
18540
CDS
17211
MCL
18131
SUB
18763
LOC
24878
TPA
25368



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-58
RPC
-62
CDS
-36
MCL
-156
SUB
48
LOC
-13
TPA
-187

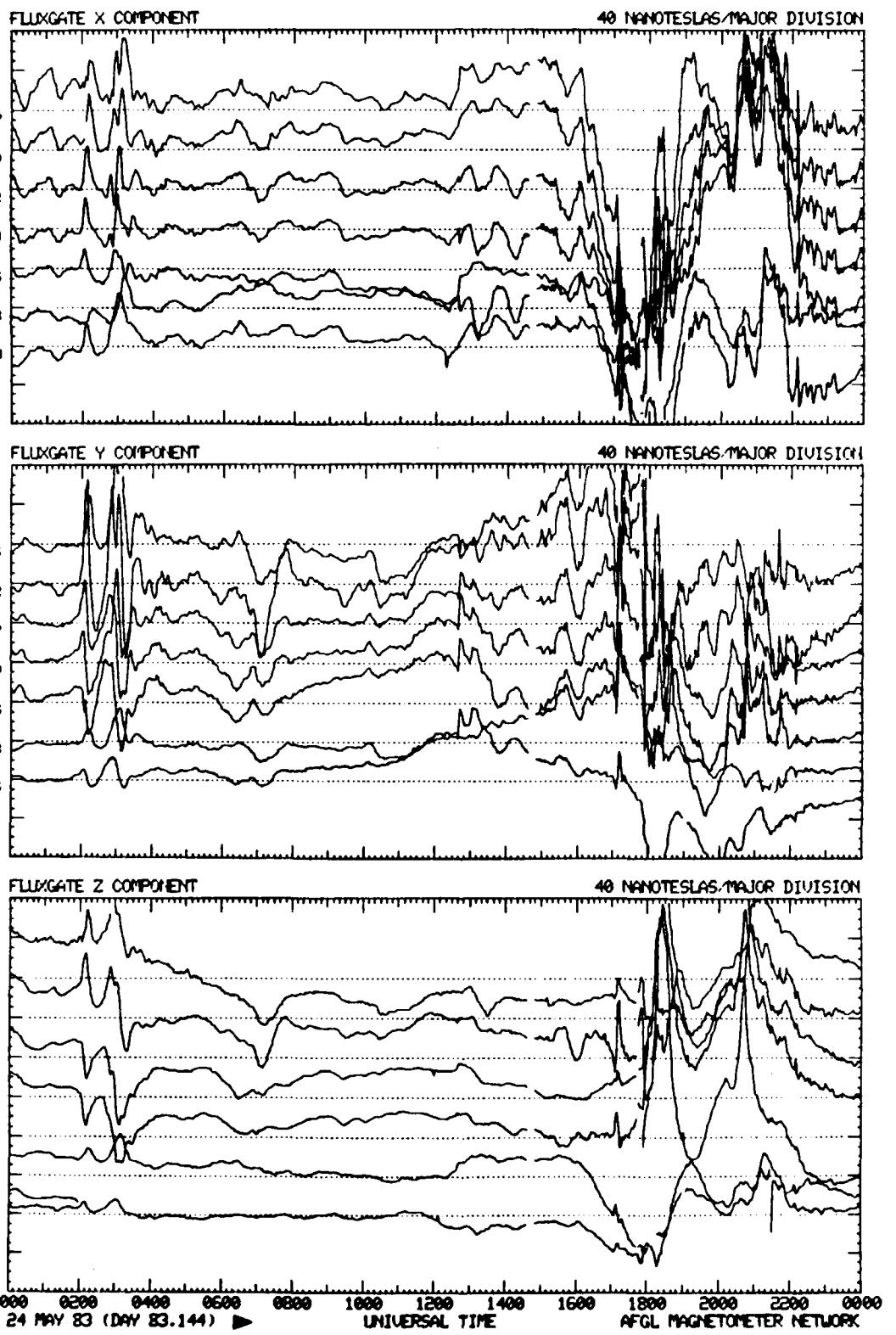


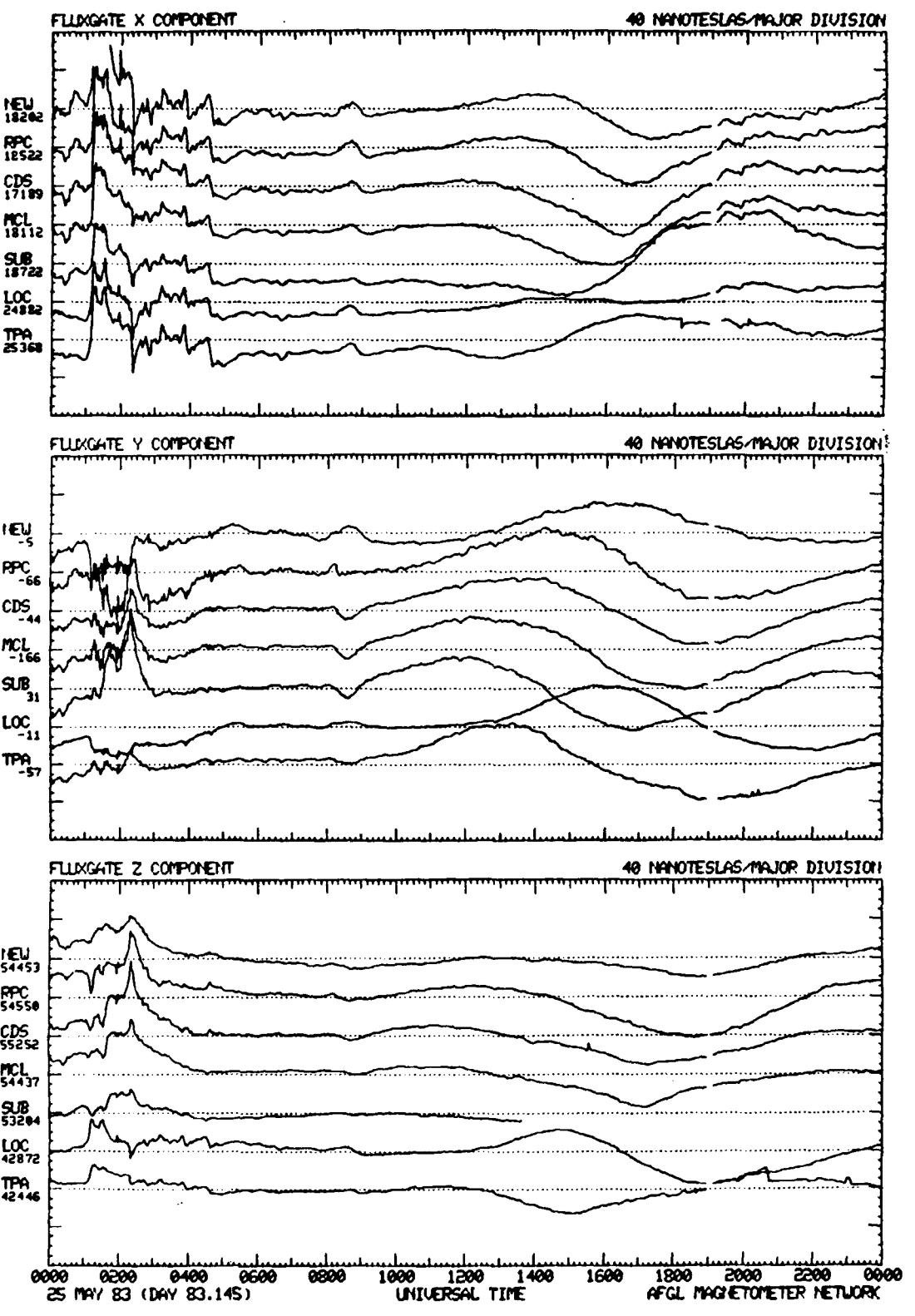
FLUXGATE Z COMPONENT

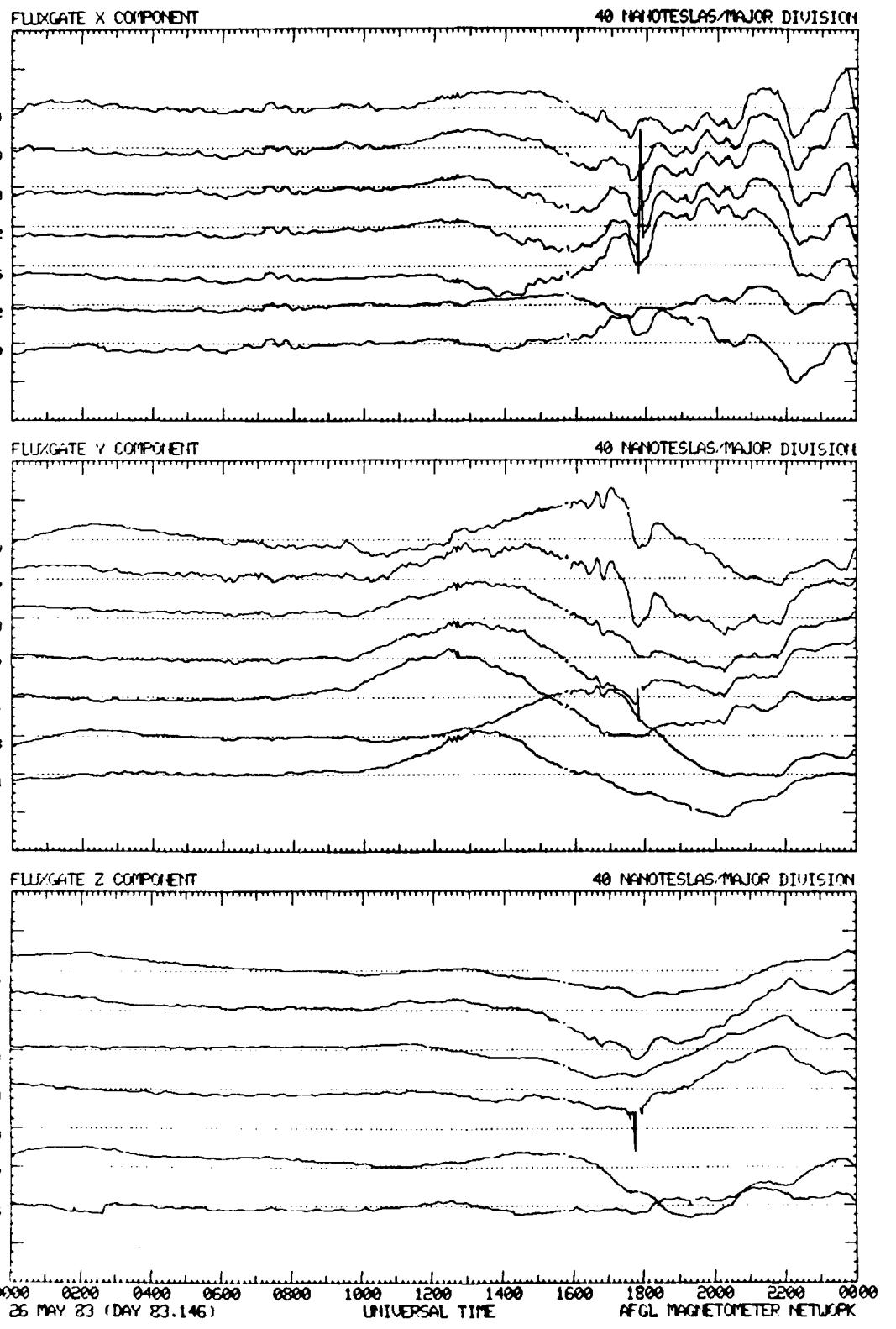
40 NANOTESLAS/MAJOR DIVISION

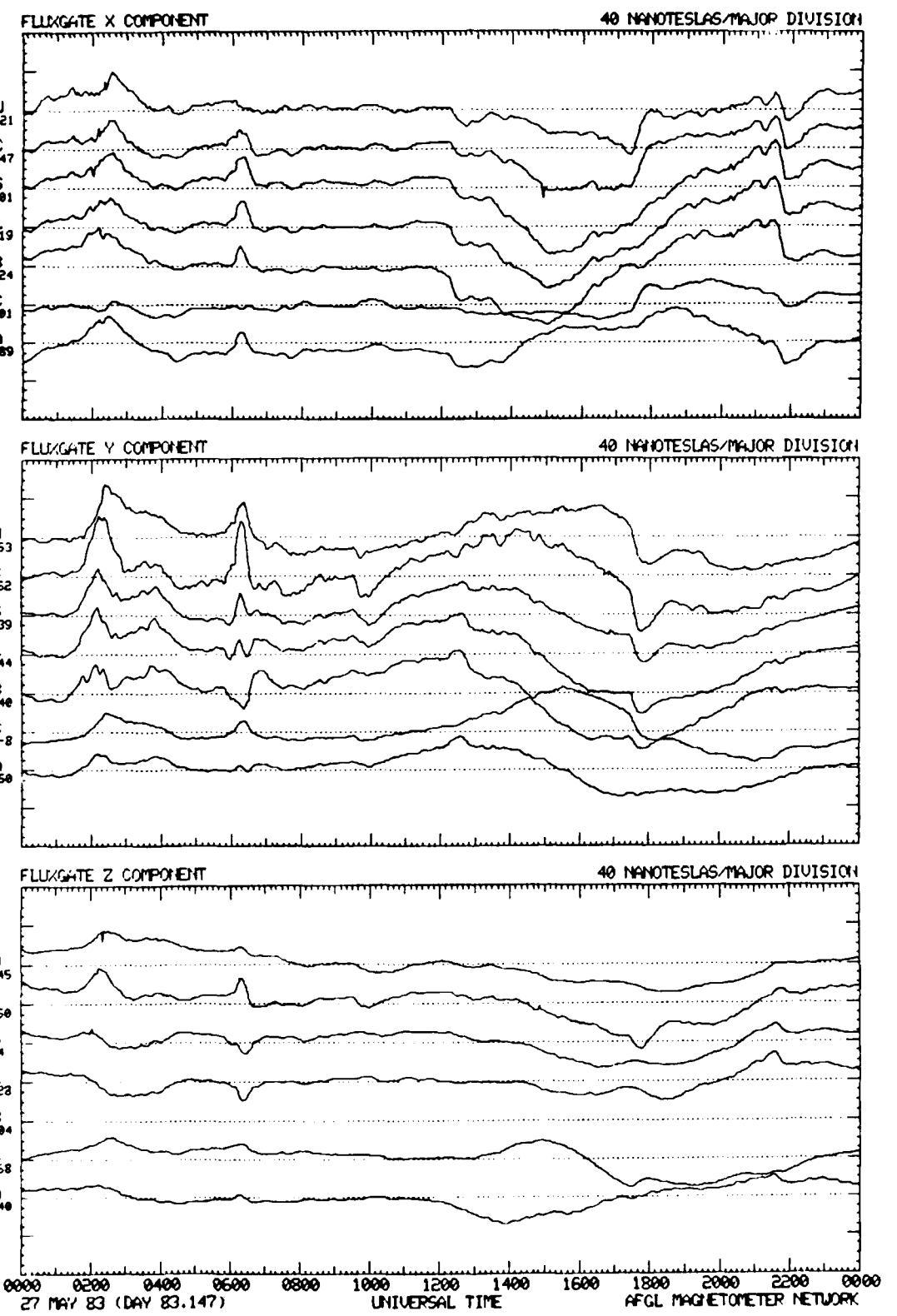
NEU
54476
RPC
54572
CDS
55276
MCL
54464
SUB
53220
LOC
42869
TPA
42468

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 MAY 83 (DAY 83.143) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13229
RPC
18557
CDS
17217
MCL
18137
SUB
18743
LOC
2490
TPA
25401

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

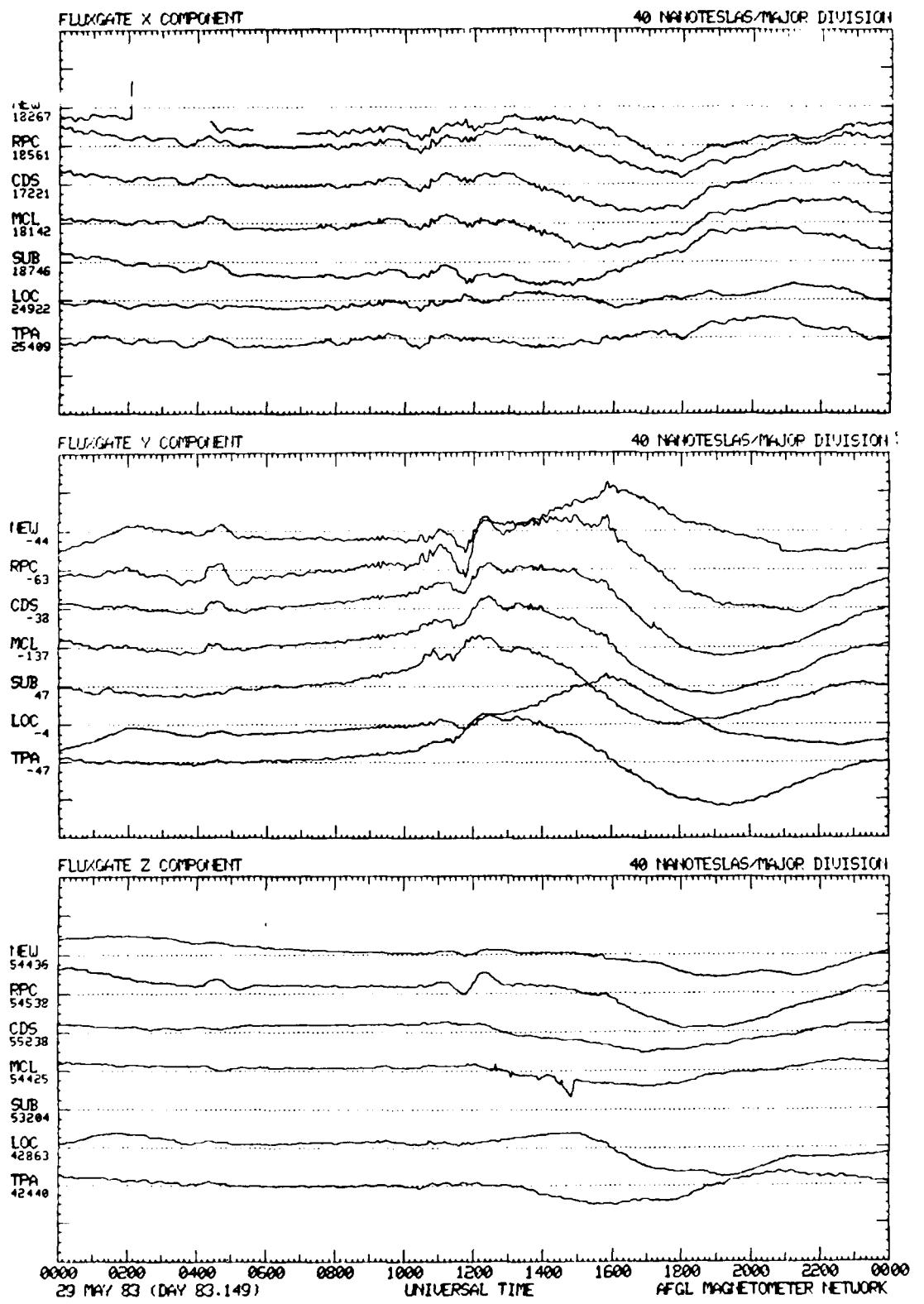
NEW
-46
RPC
-62
CDS
-33
MCL
-142
SUB
42
LOC
-7
TPA
-50

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

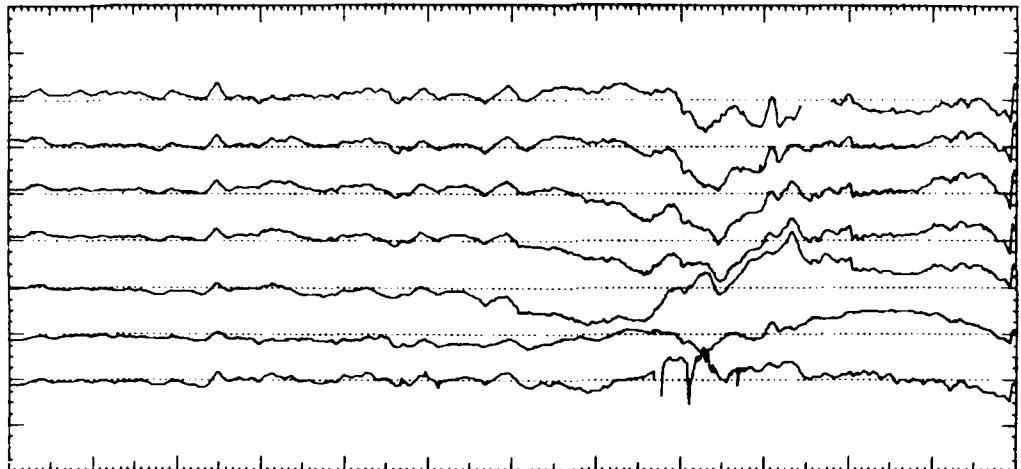
NEW
54442
RPC
54546
CDS
55239
MCL
54425
SUB
53284
LOC
42264
TPA
42443

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 MAY 83 (DAY 83.148) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



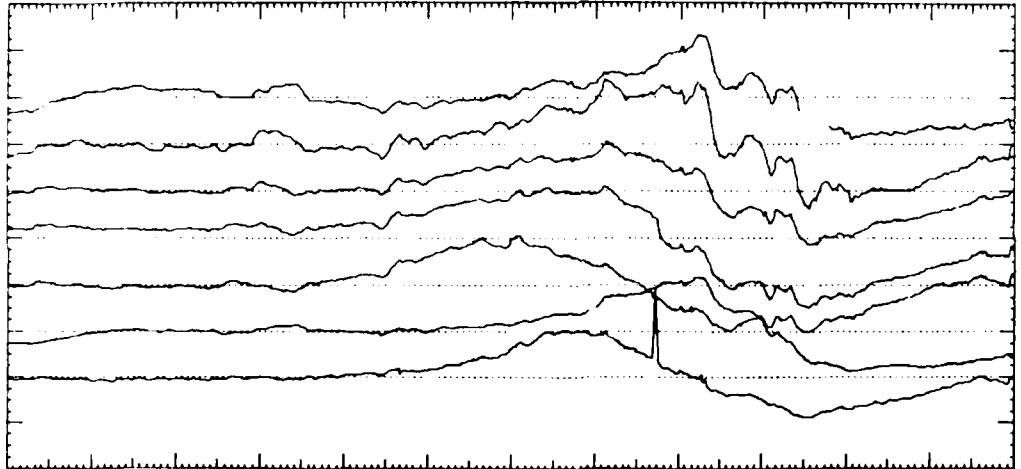
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12251
RPC
18566
CDS
17226
MCL
18158
SUB
18761
LOC
24927
TPA
25415

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

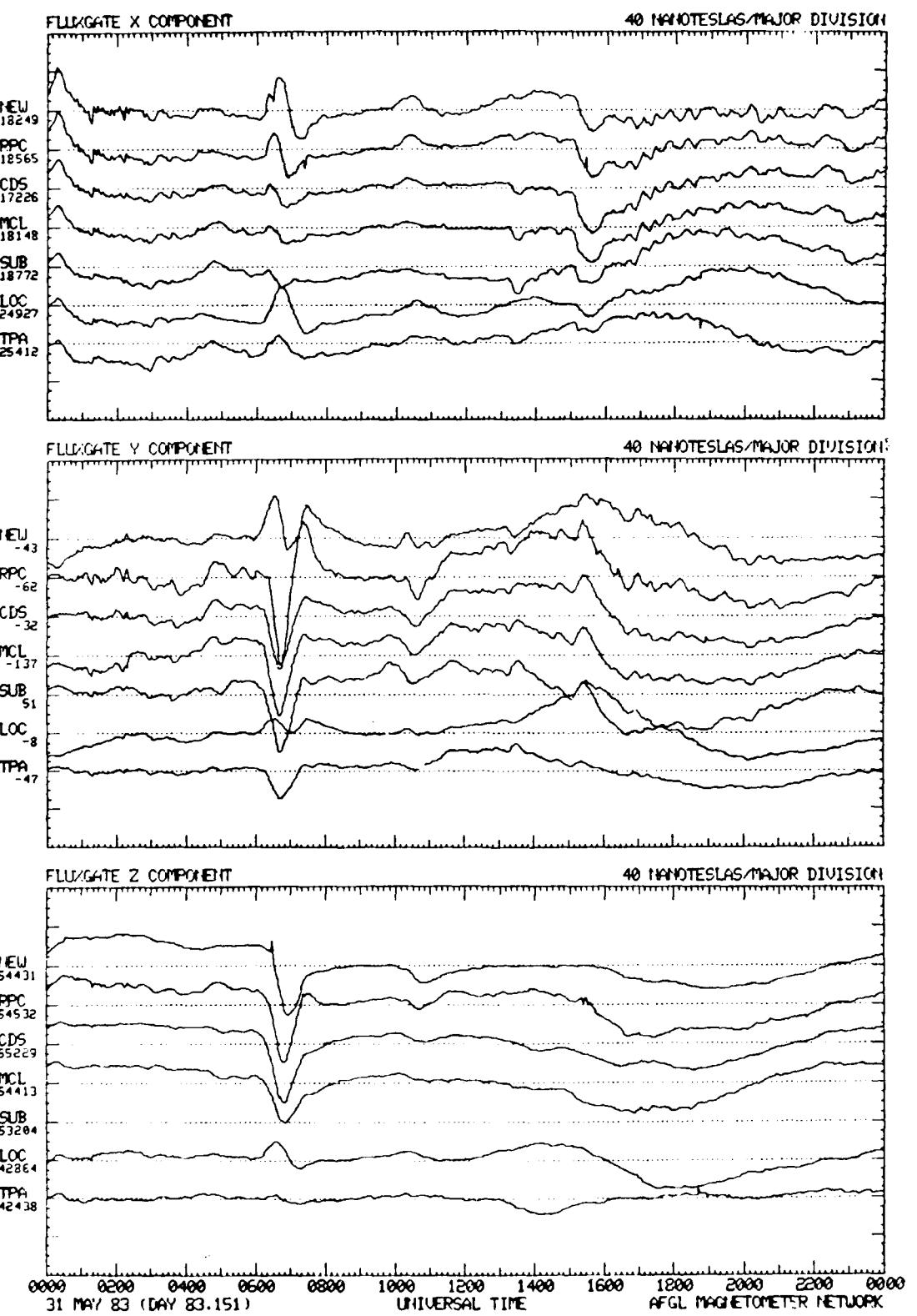
NEW
-44
RPC
-64
CDS
-35
MCL
-142
SUB
48
LOC
-11
TPA
-45

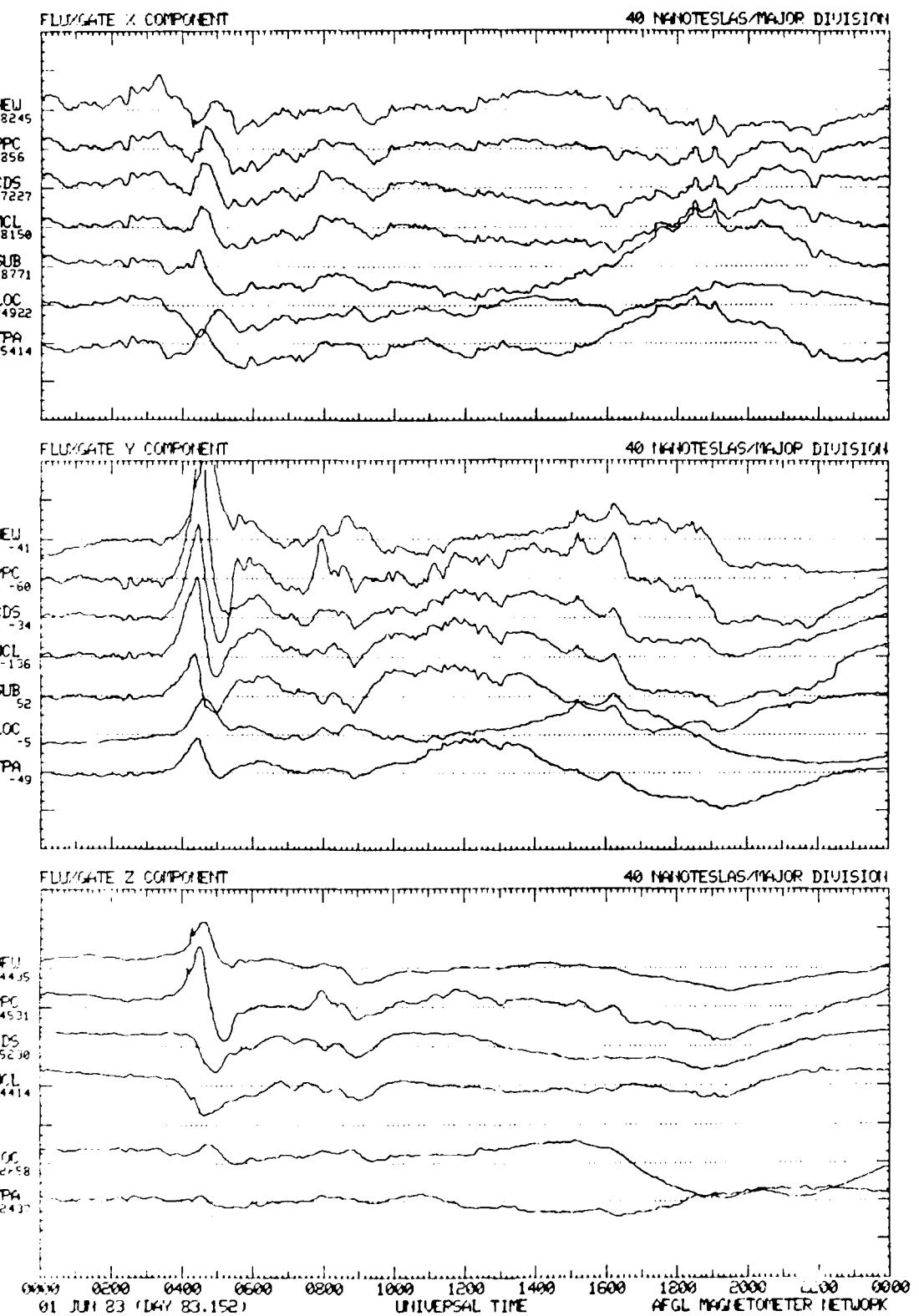
FLUXGATE Z COMPONENT

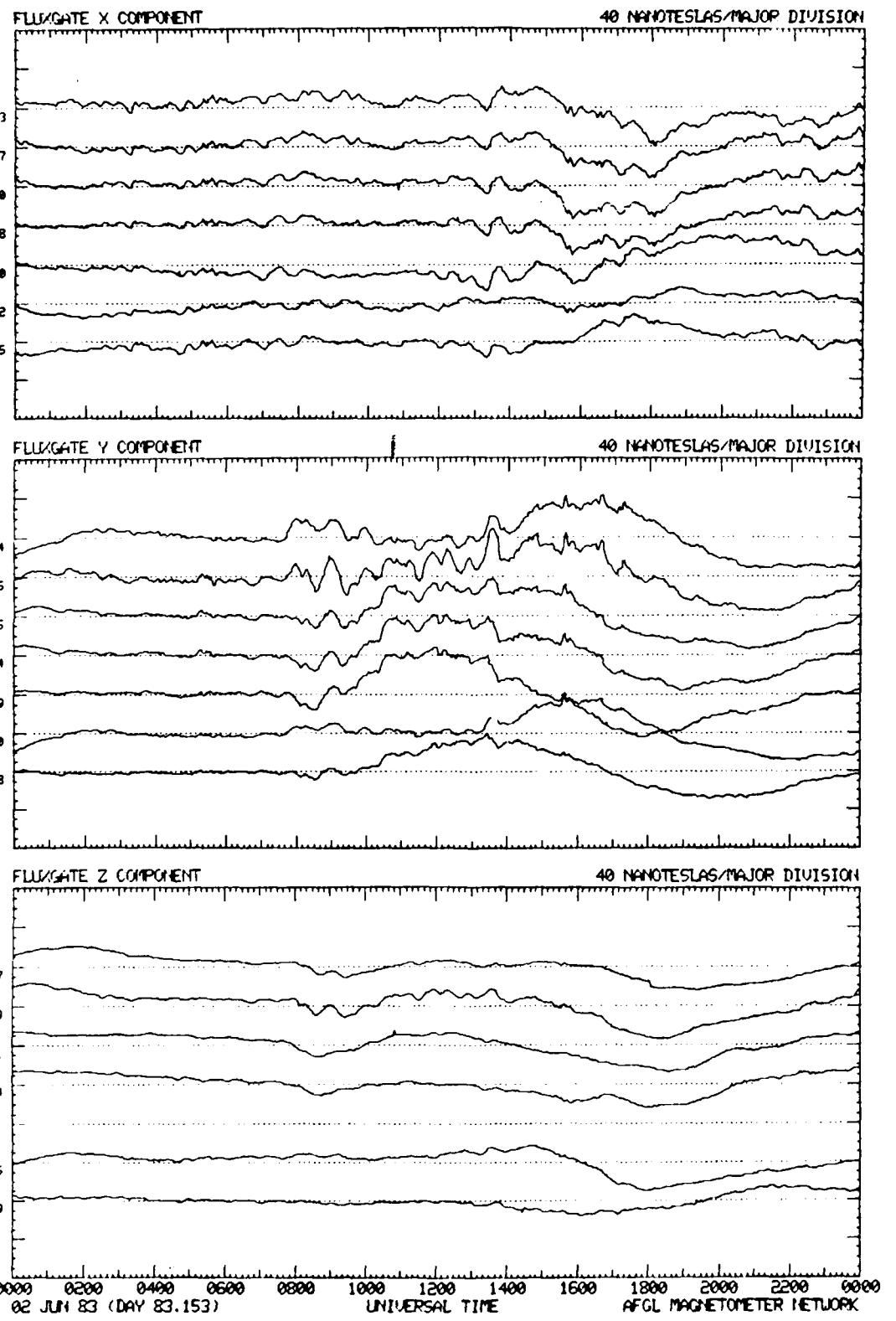
40 NANOTESLAS/MAJOR DIVISION

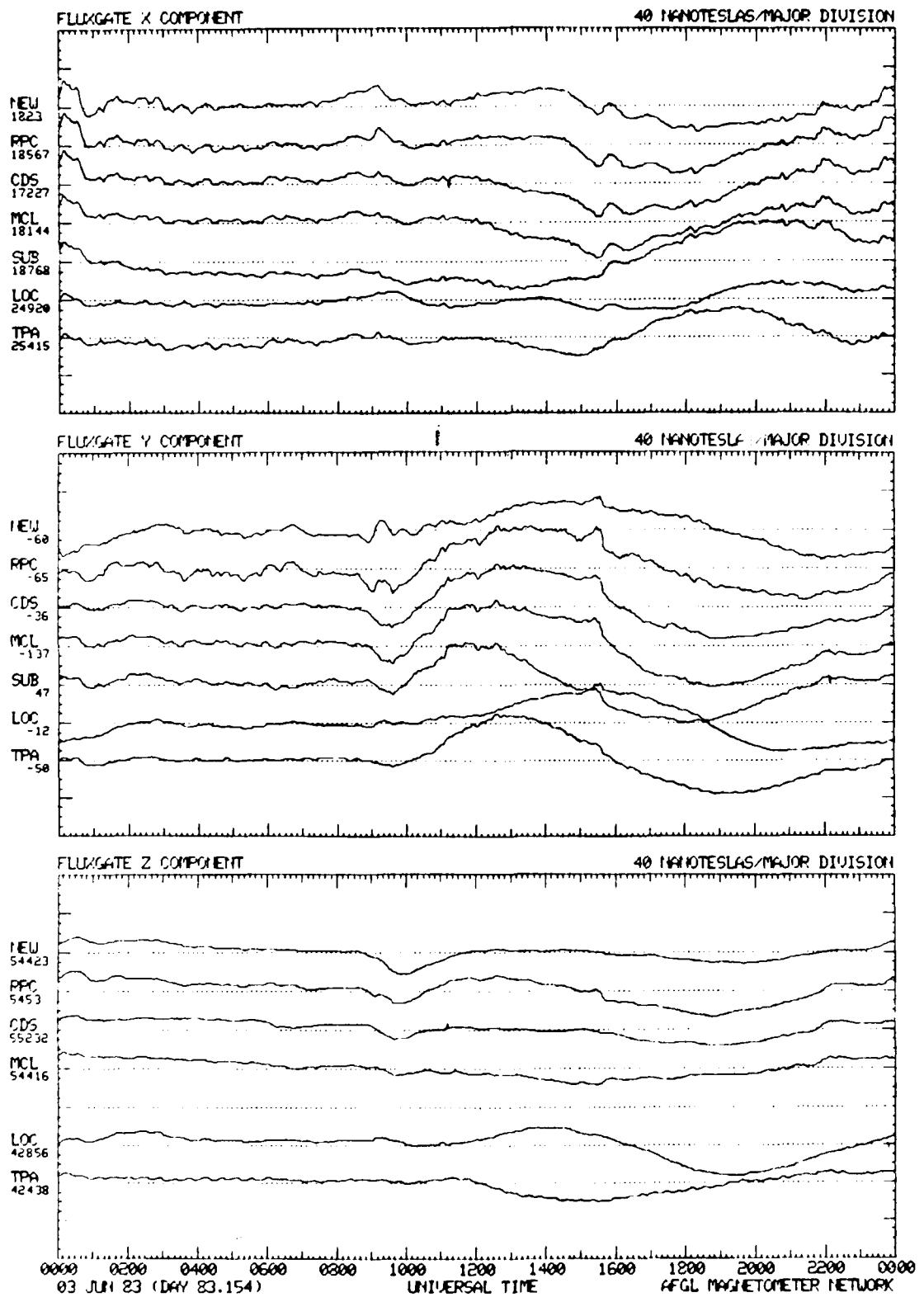
NEW
54474
RPC
54535
CDS
55235
MCL
54421
SUB
53264
LOC
42858
TPA
42434

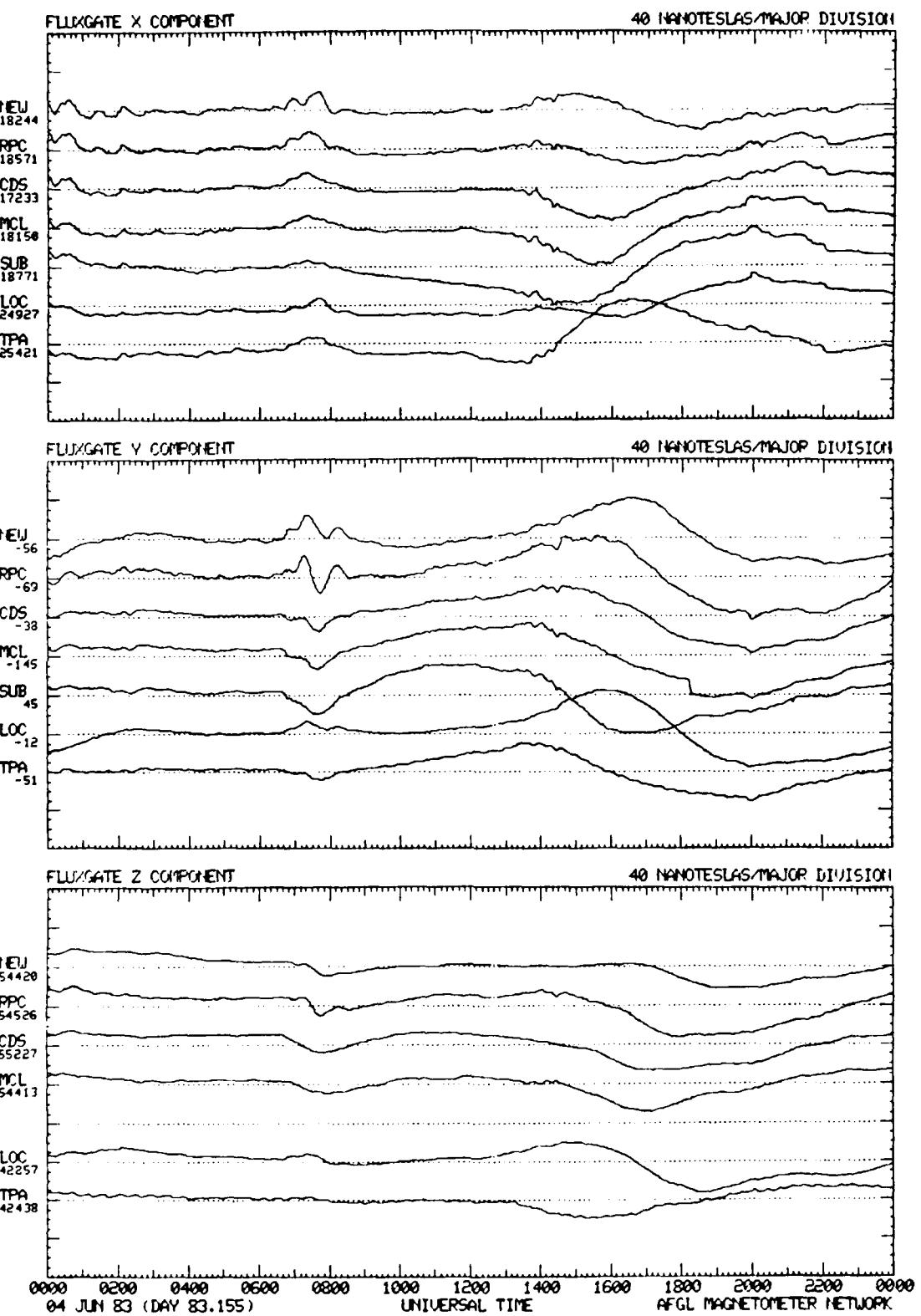
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
30 MAY 83 (DAY 83.150) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK











FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12251
RPC
18576
CDS
17237
MCL
18157
SUB
18777
LOC
24933
TPA
25423

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

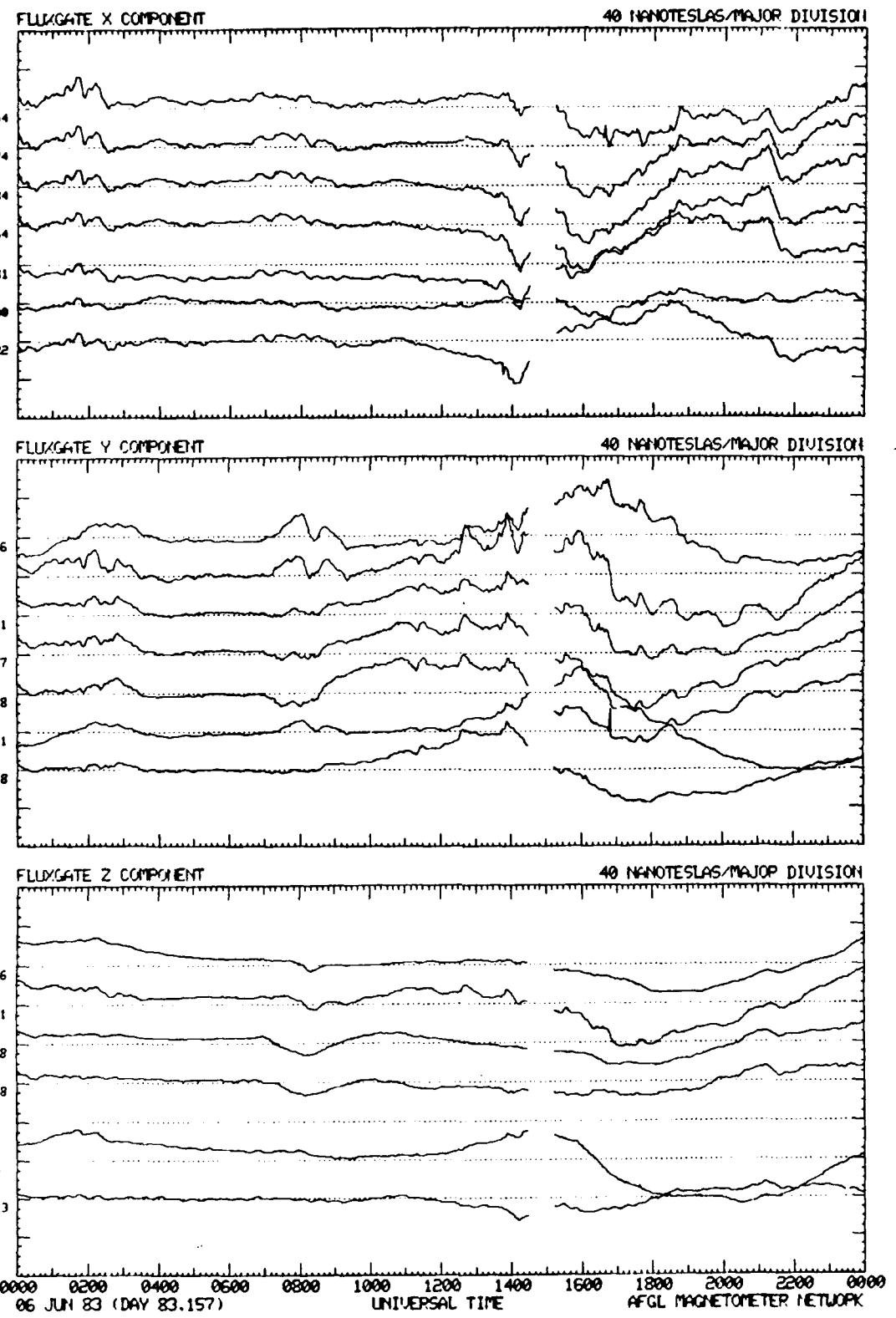
NEU
-58
RPC
-67
CDS
-3
MCL
-156
SUB
48
LOC
-8
TPA
-51

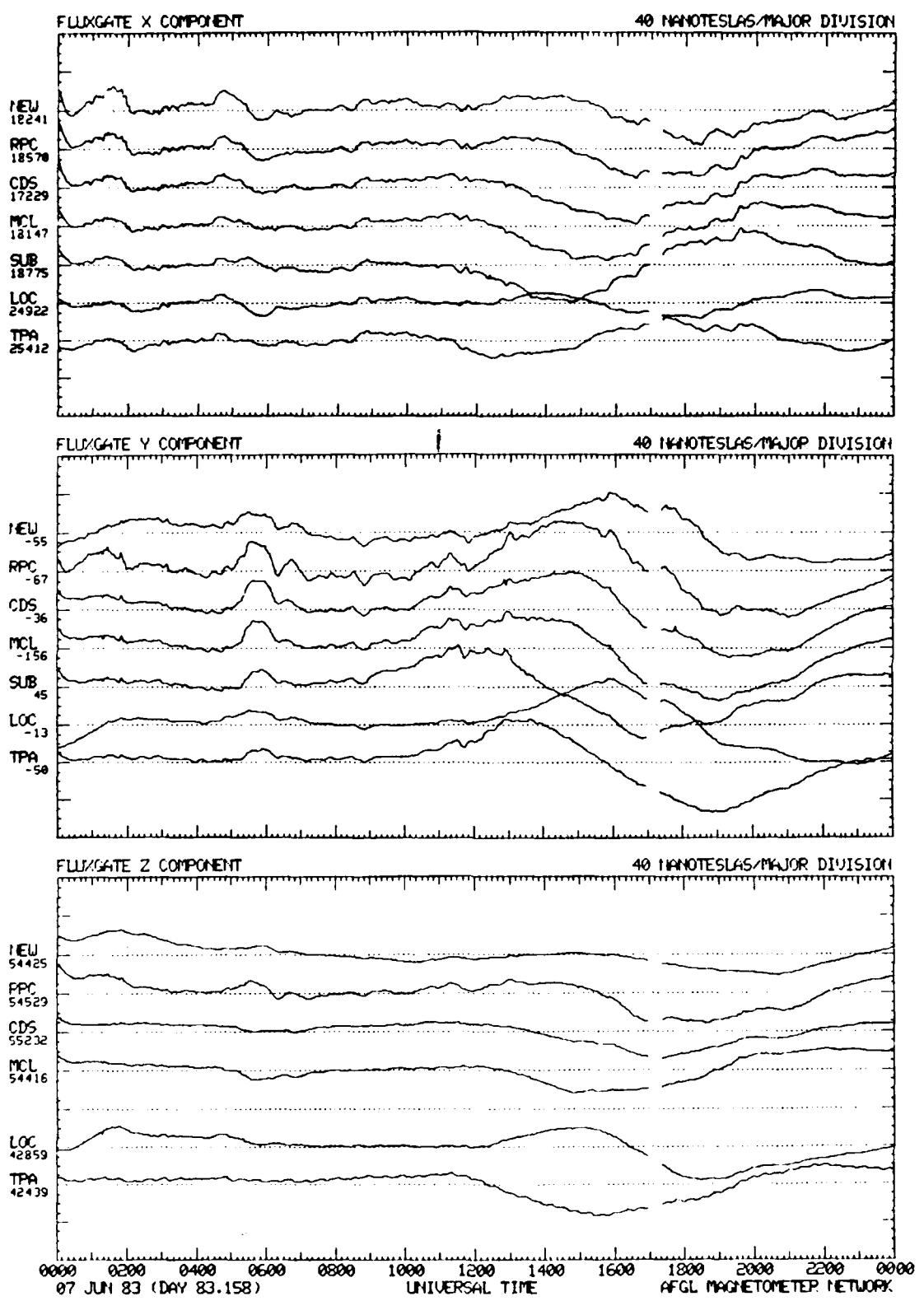
FLUXGATE Z COMPONENT

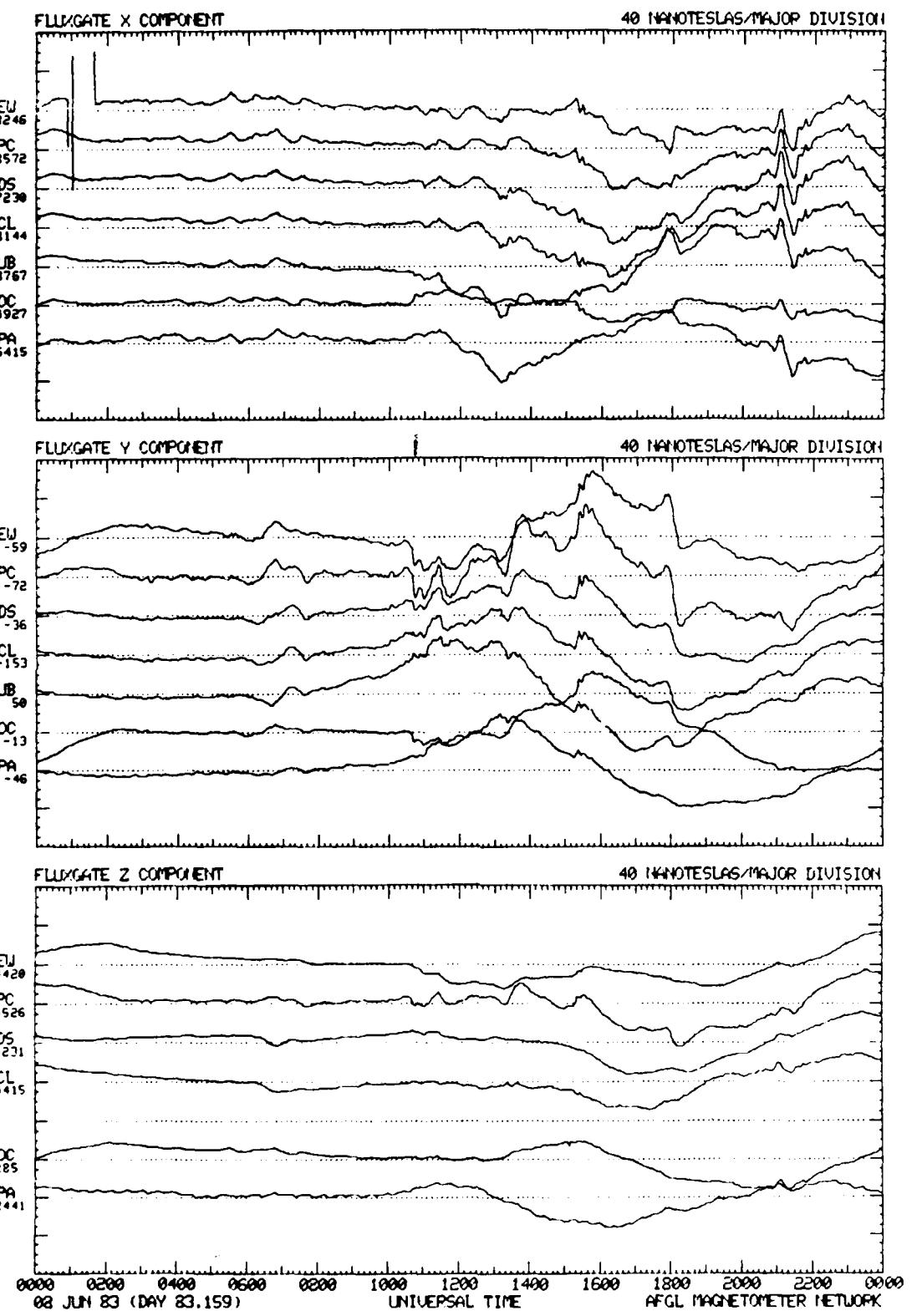
40 NANOTESLAS/MAJOR DIVISION

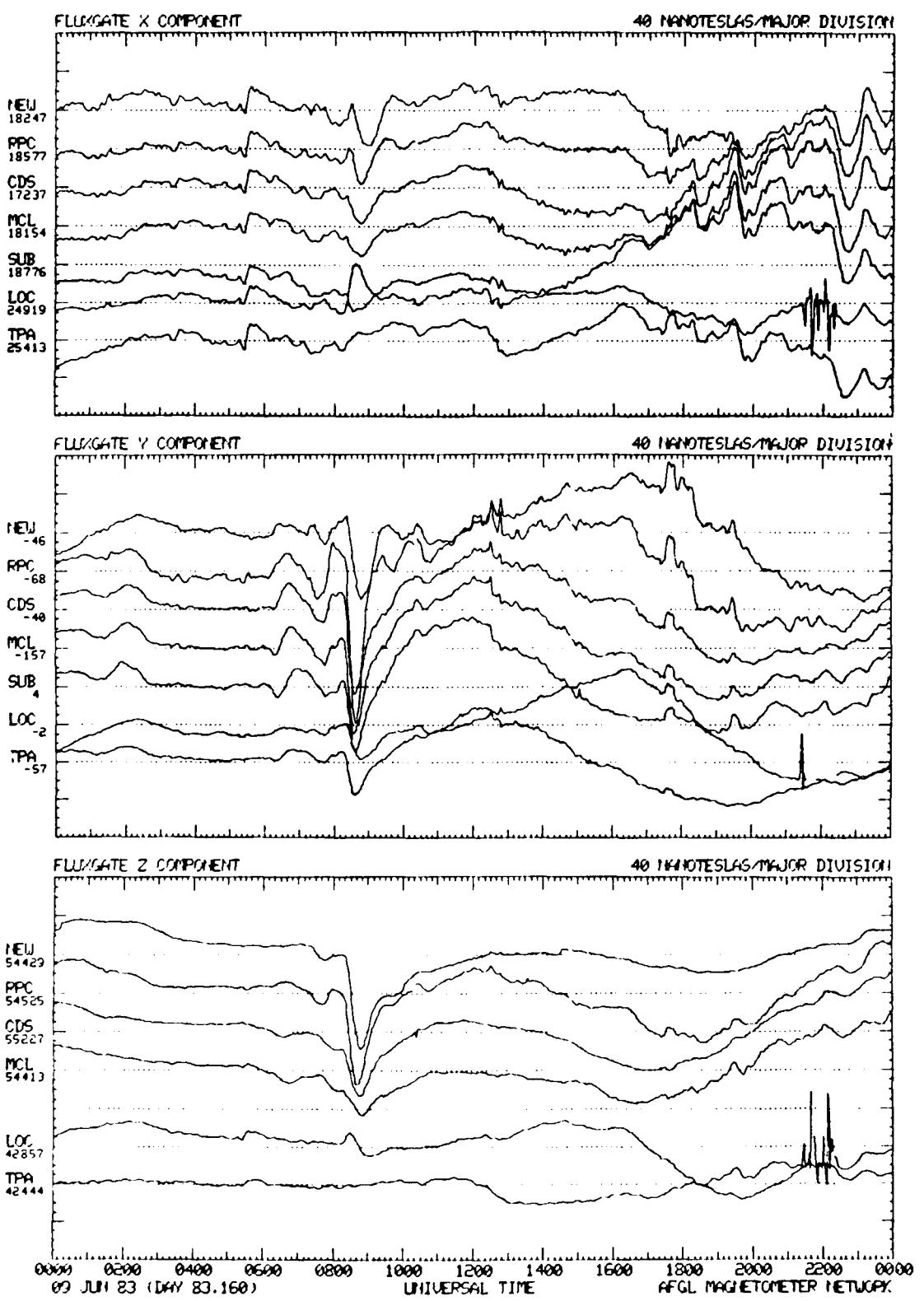
NEU
54419
PPC
54524
CDS
55231
MCL
54413
LOC
42858
TPA
42441

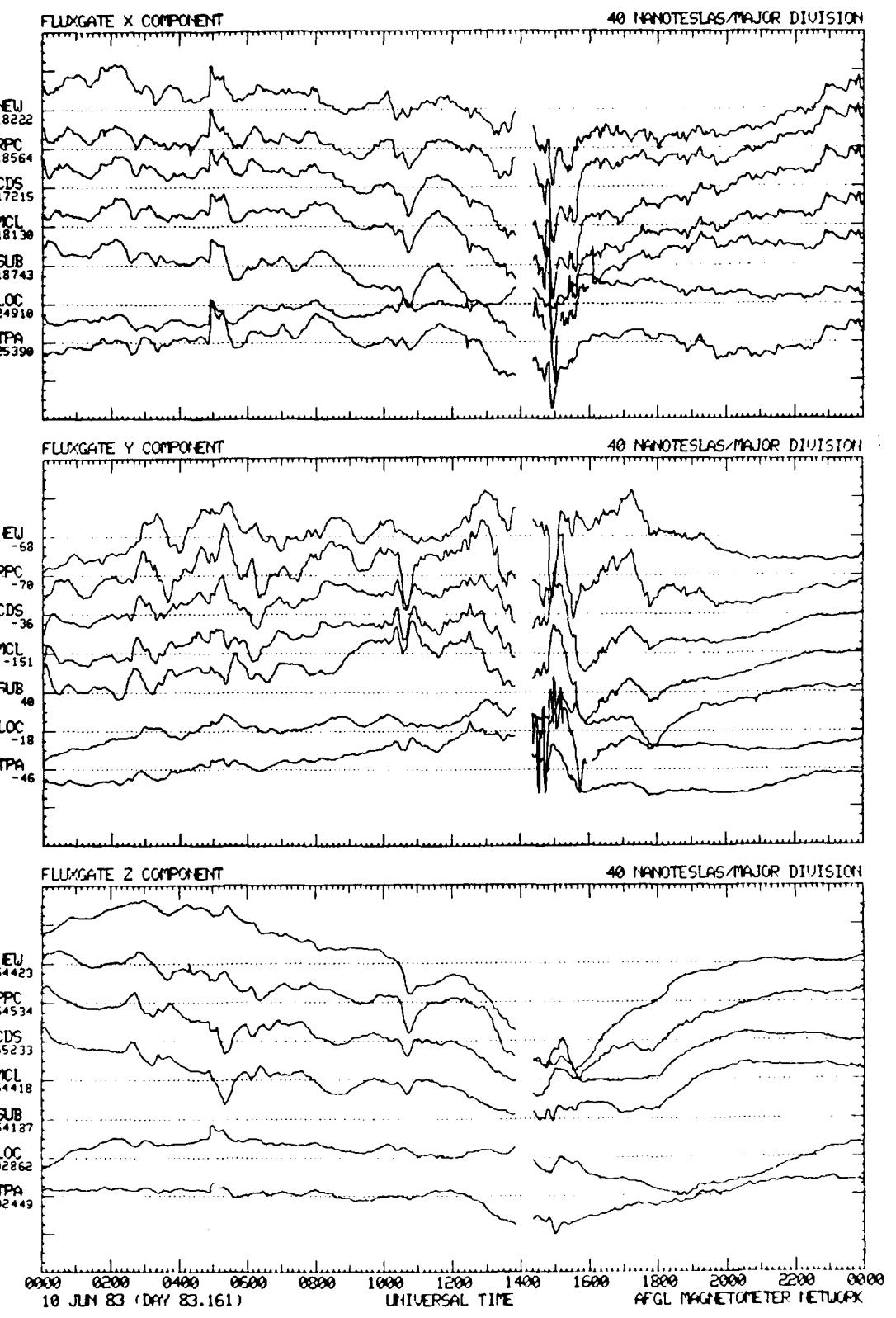
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 JUN 83 (DAY 83.156) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

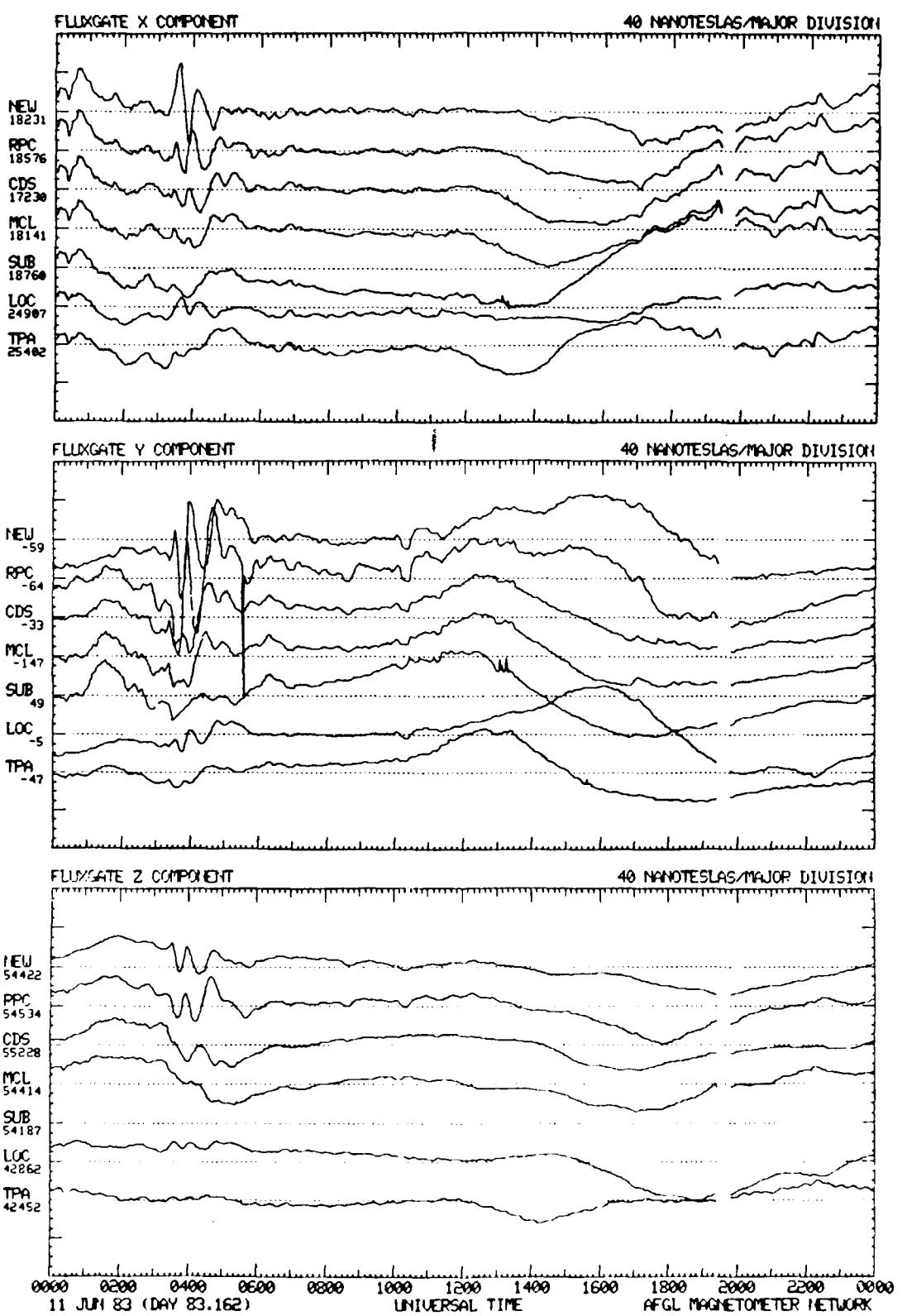






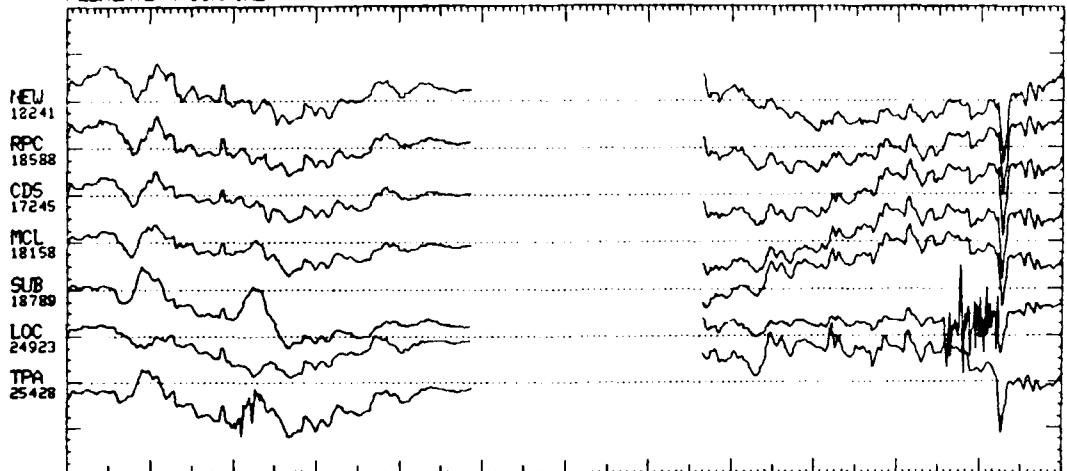






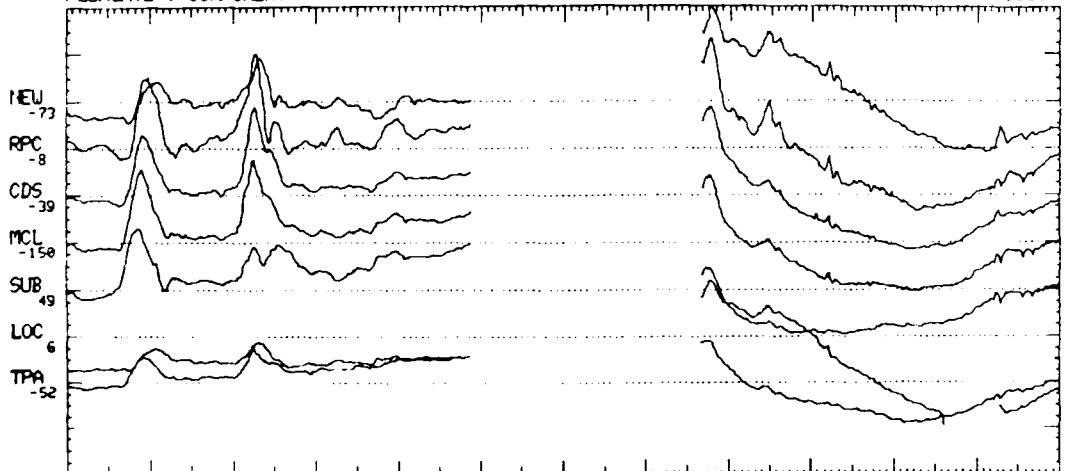
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



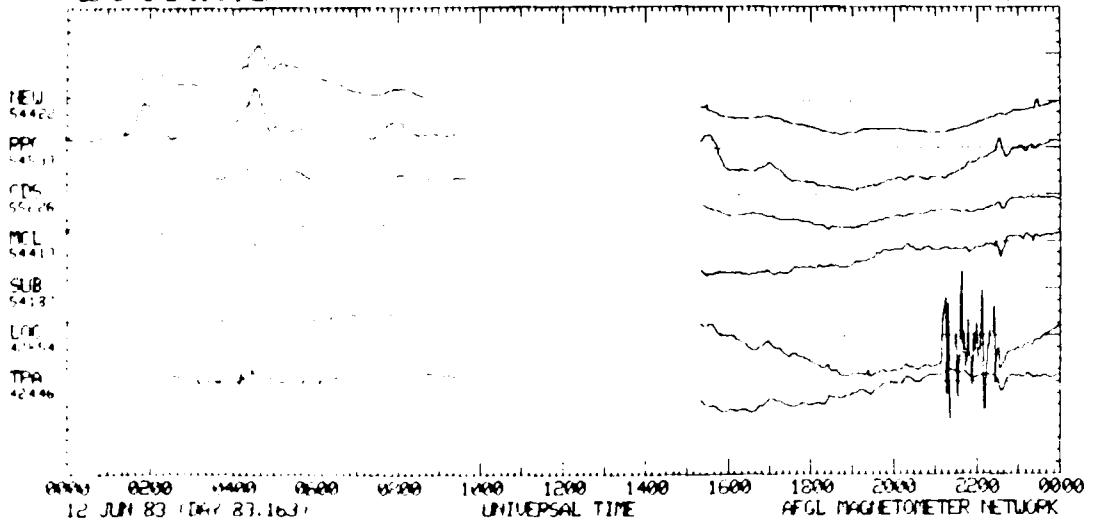
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

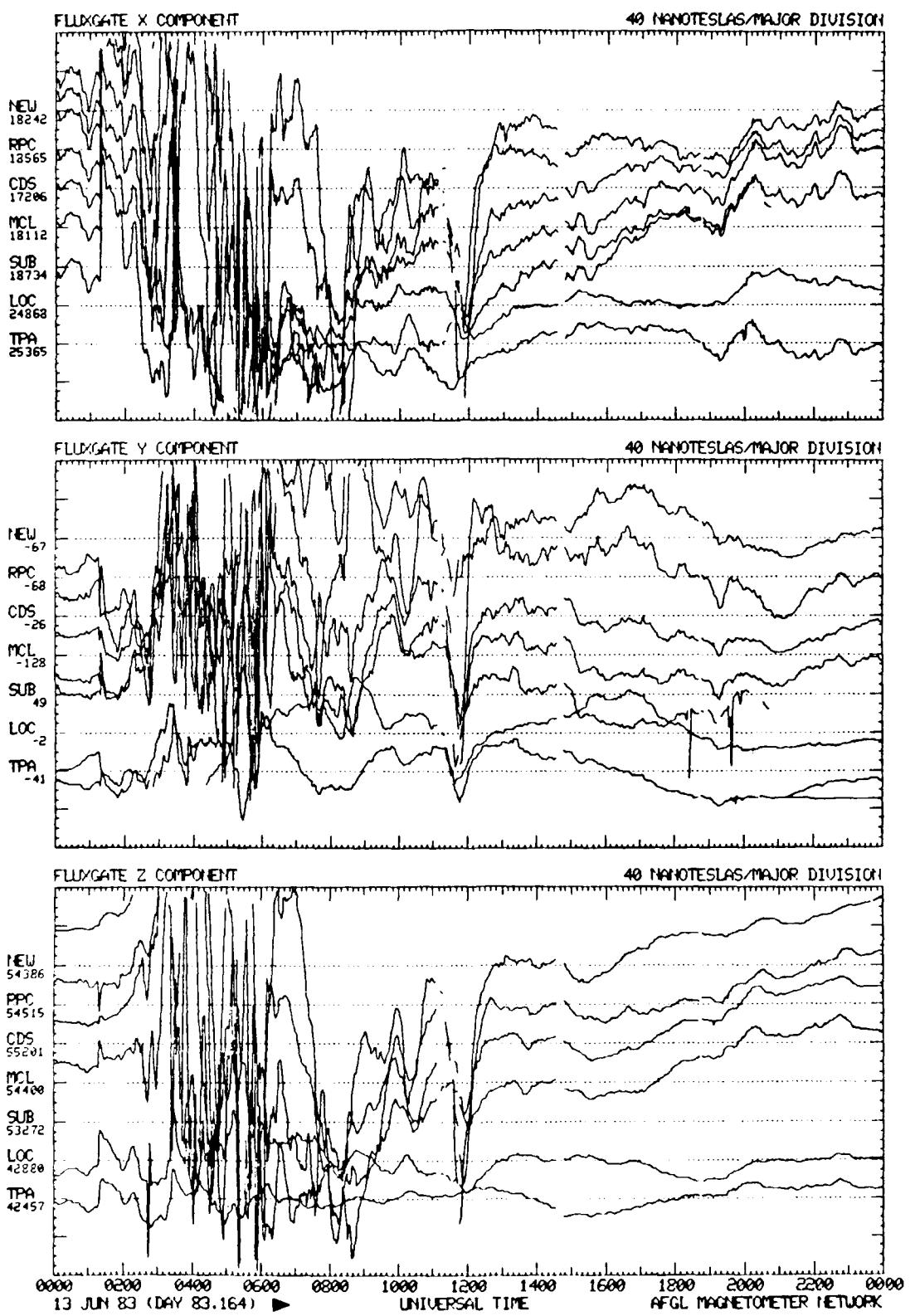
40 NANOTESLAS/MAJOR DIVISION

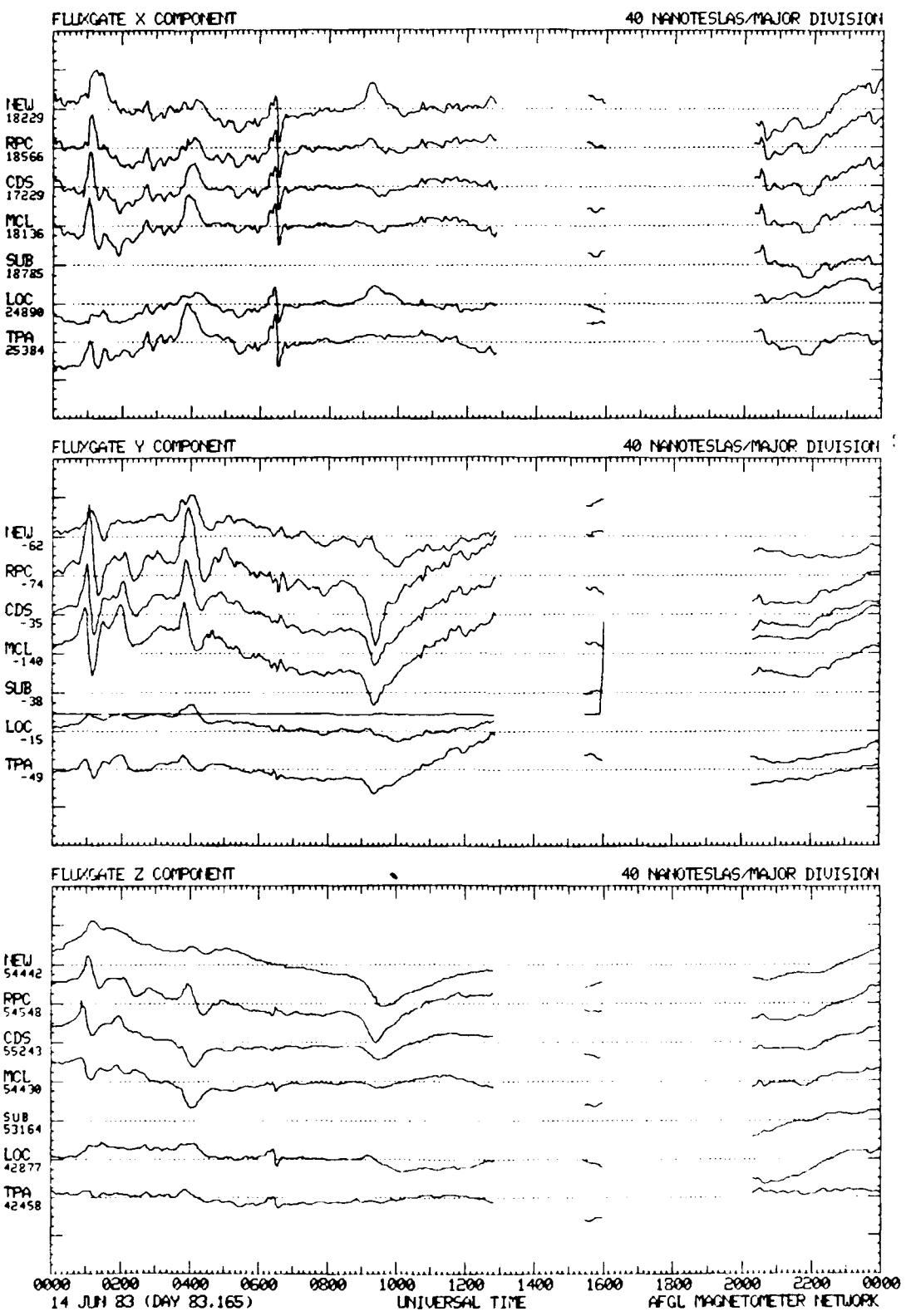


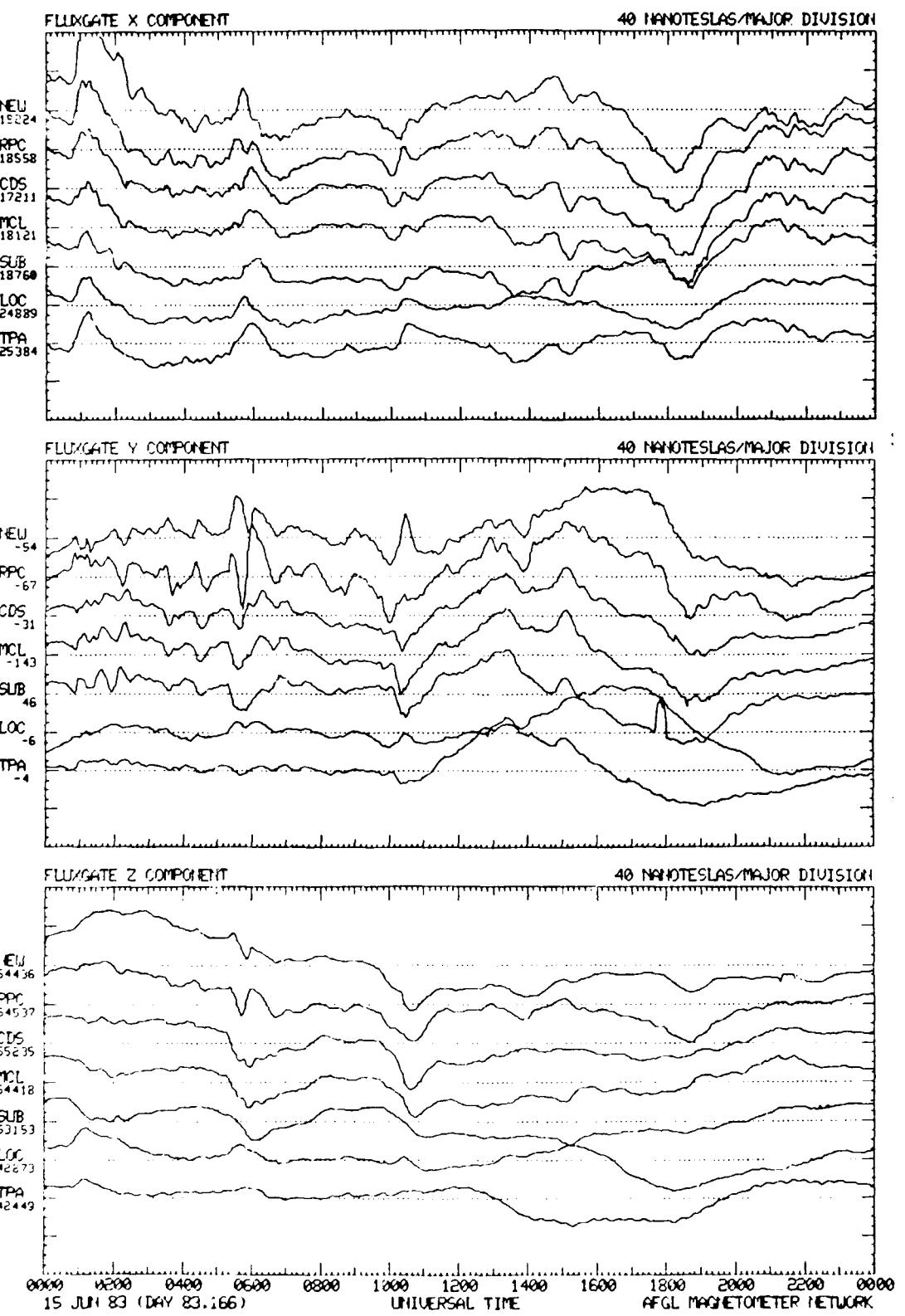
12 JUN 83 (DAY 87, 163)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK



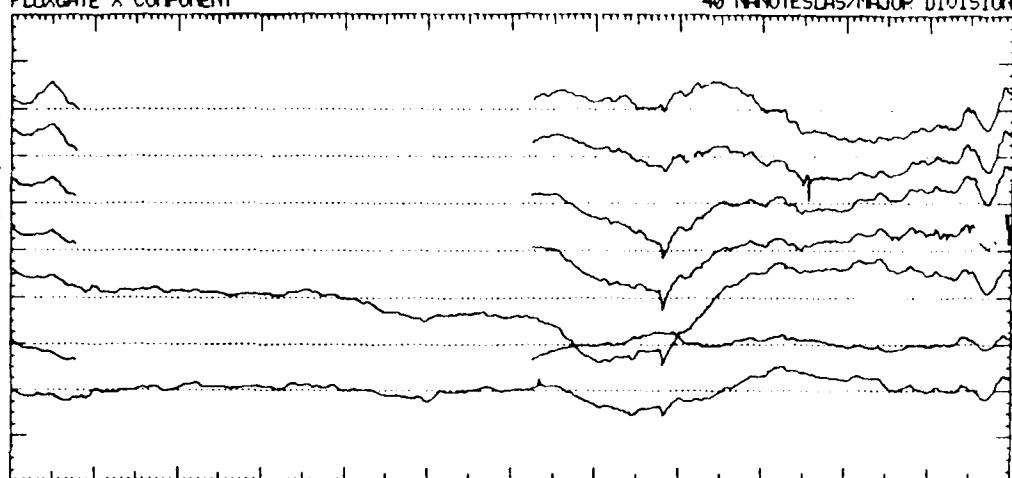




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

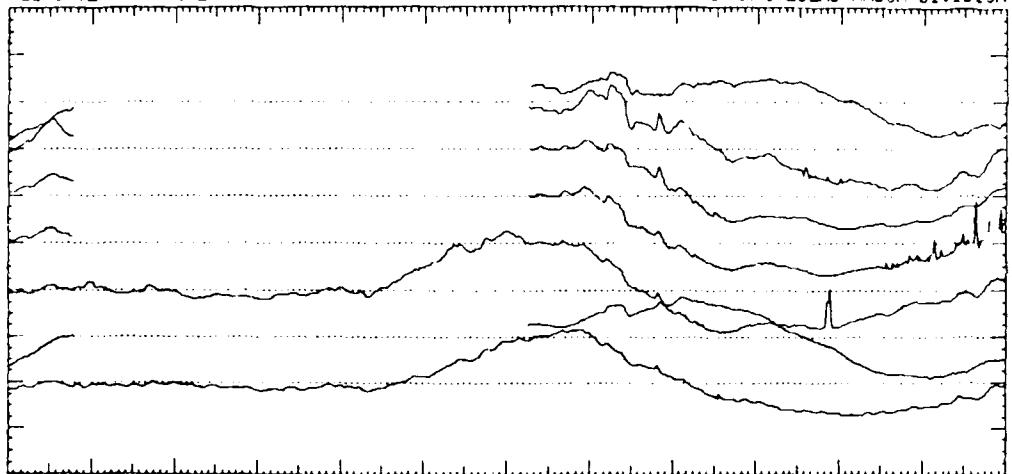
NEU
18228
RPC
18566
CDS
17222
MCL
18131
SUB
18762
LOC
24986
TPA
25395



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-58
RPC
-75
CDS
-40
MCL
-143
SUB
47
LOC
-8
TPA
-46



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54480
RPC
54528
CDS
55233
MCL
54417
SUB
53161
LOC
42863
TPA
42449

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 JUN 83 (DAY 83.167) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18238
RPC
18578
CDS
17239
MCL
18149
SUB
18782
LOC
24918
TPA
25413

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

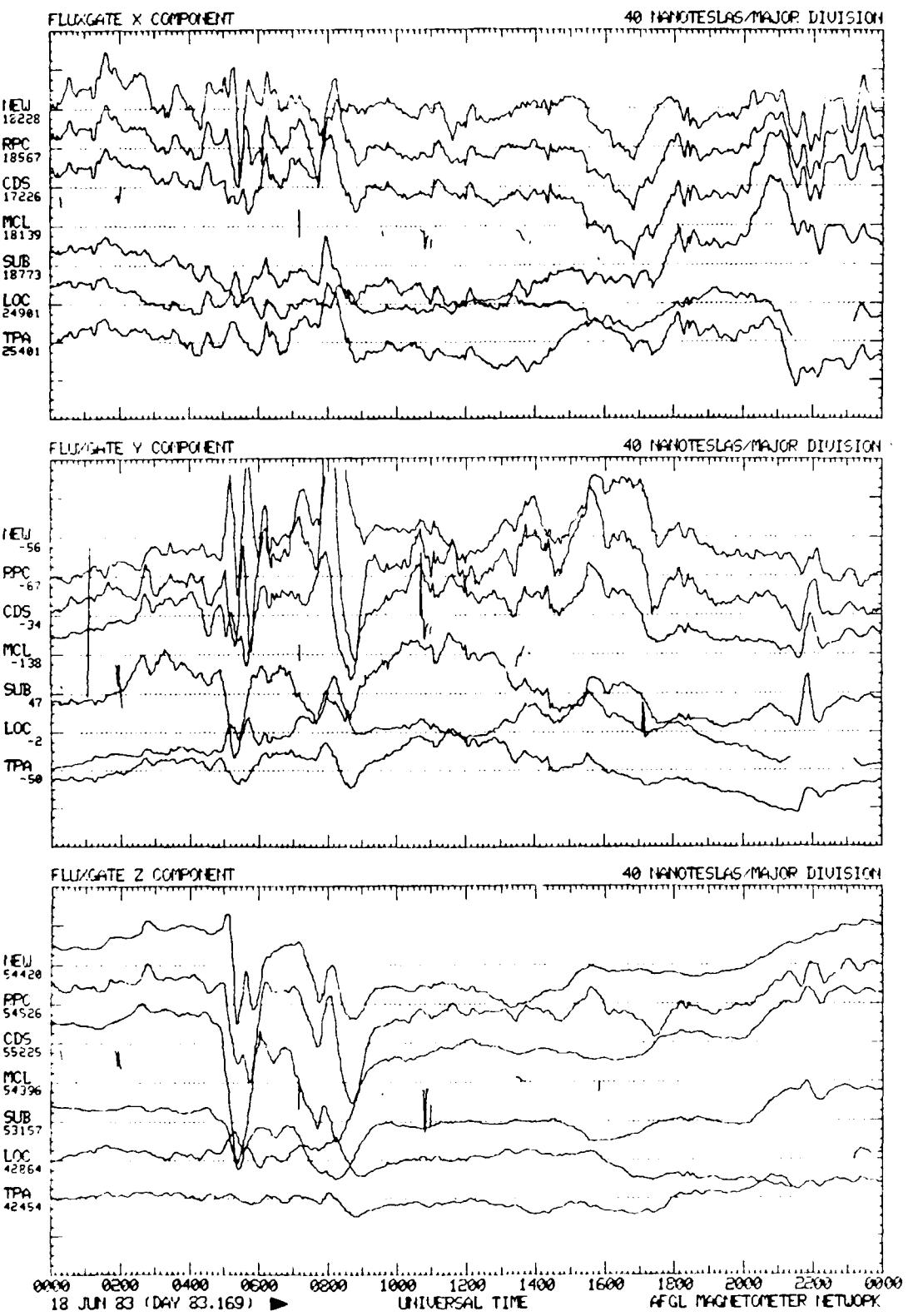
NEU
-57
RPC
-74
CDS
-39
MCL
-149
SUB
47
LOC
-9
TPA
-49

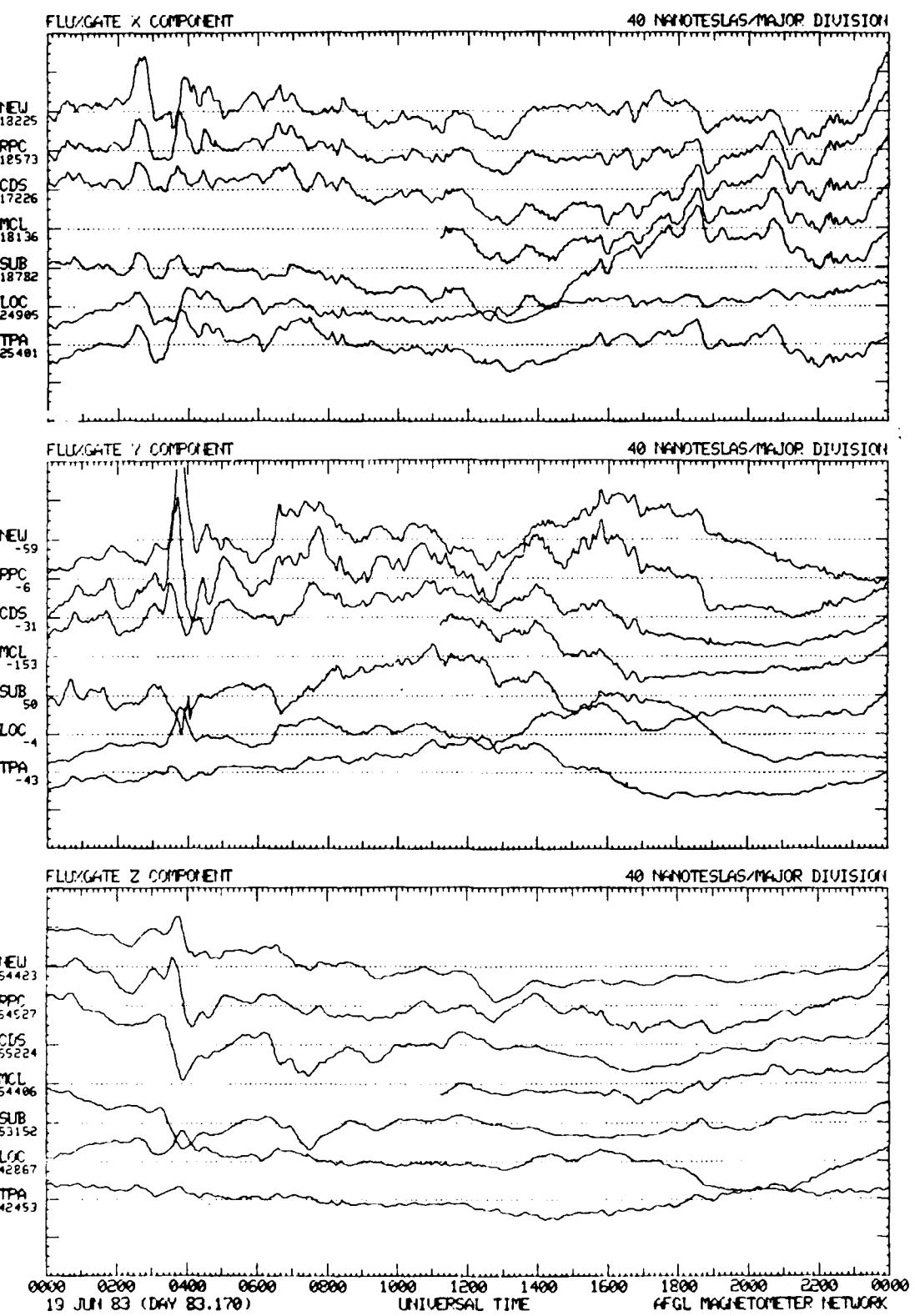
FLUXGATE Z COMPONENT

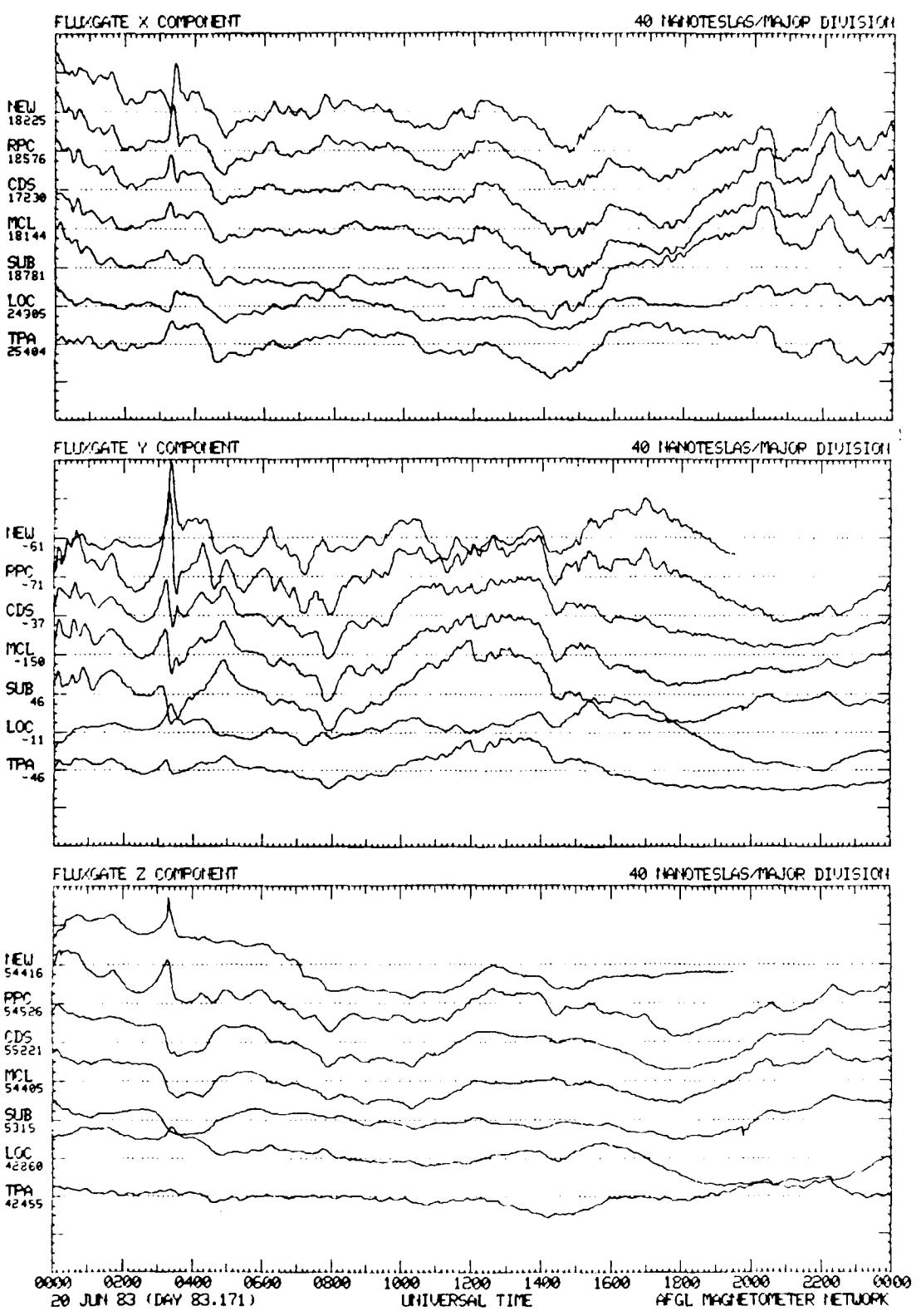
40 NANOTESLAS/MAJOR DIVISION

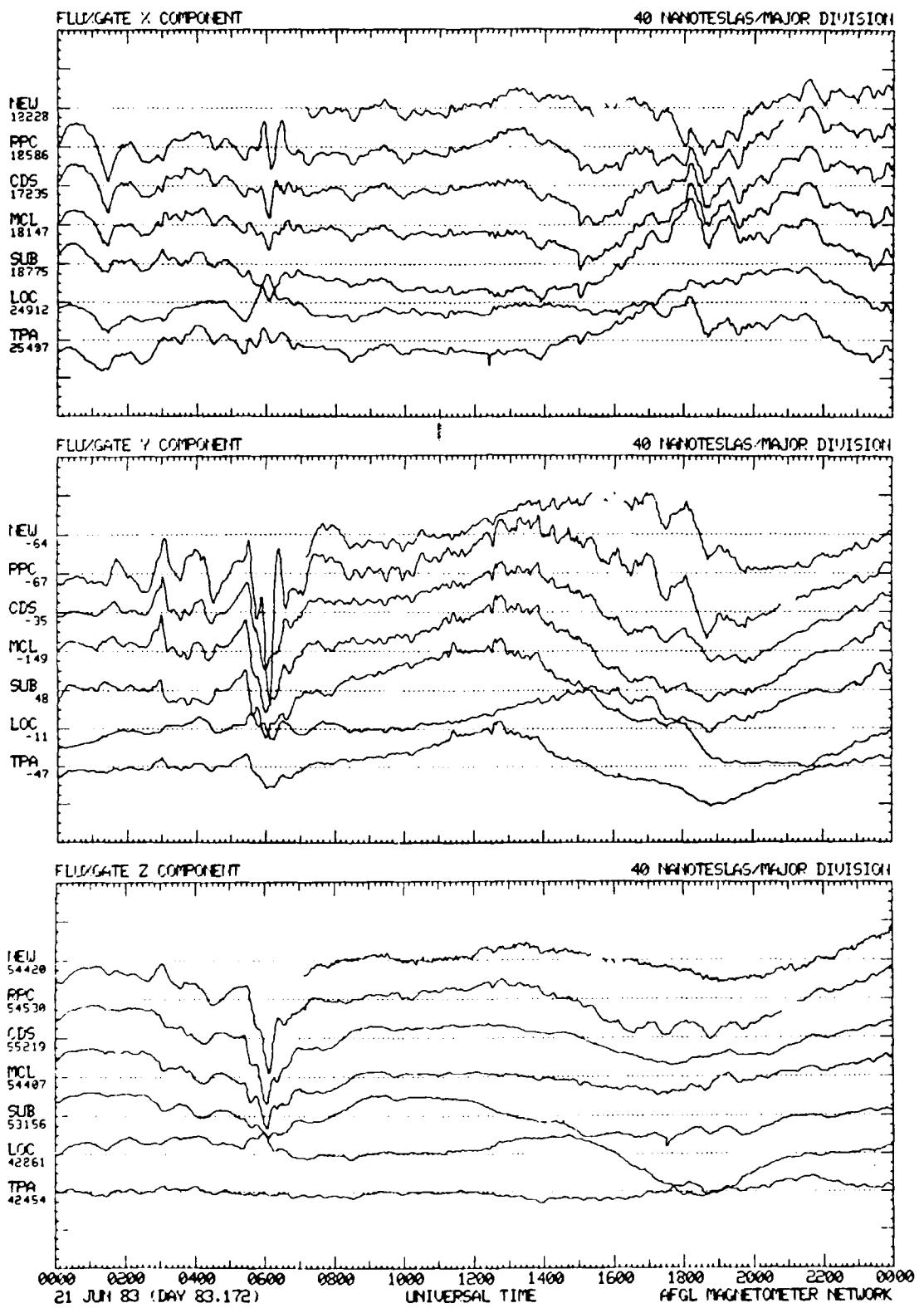
NEU
54421
PPC
54522
CDS
5523
MCL
54113
SUB
53164
LOC
42262
TPA
42458

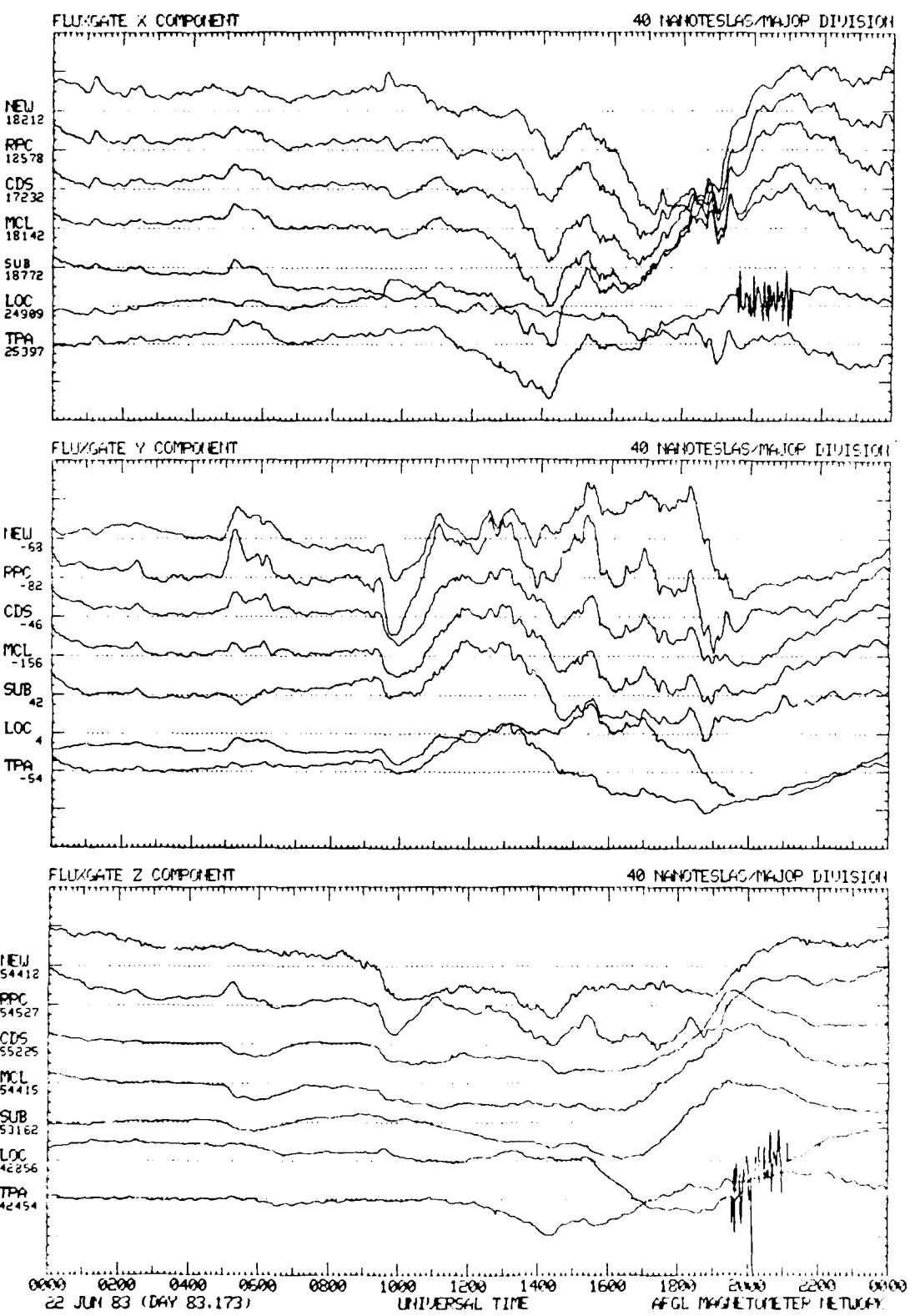
00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
17 JUN 83 (DAY 83.168) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

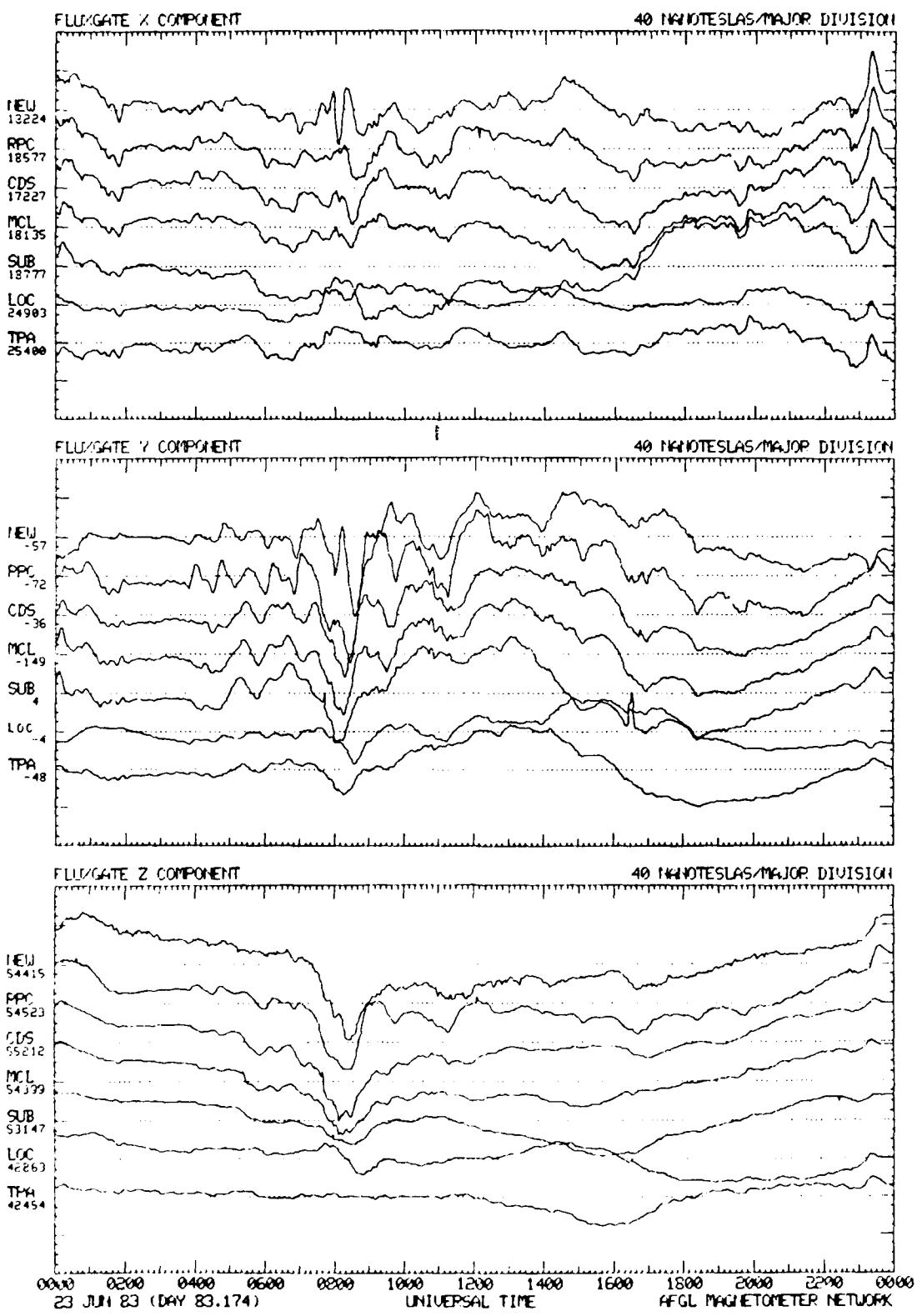


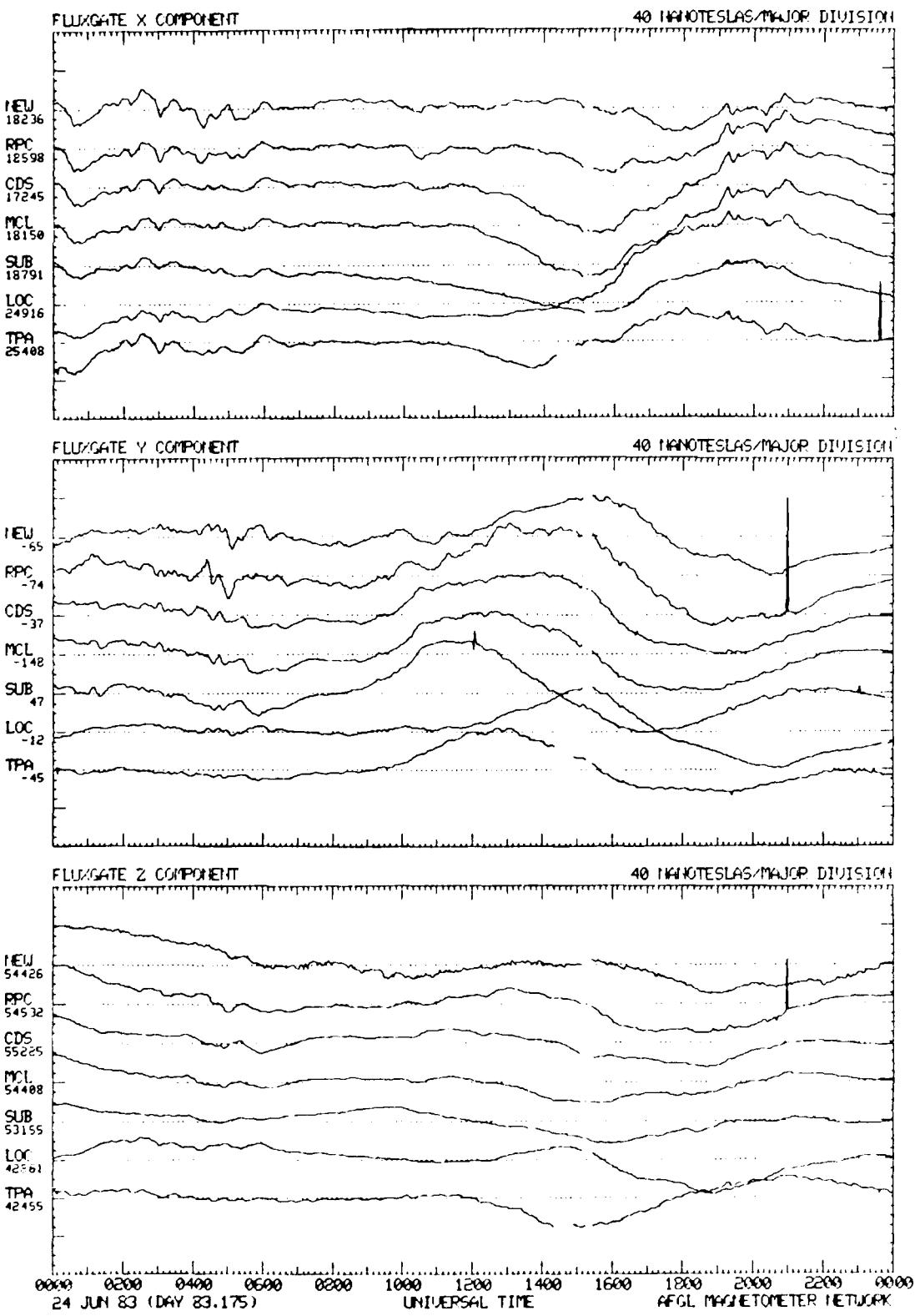


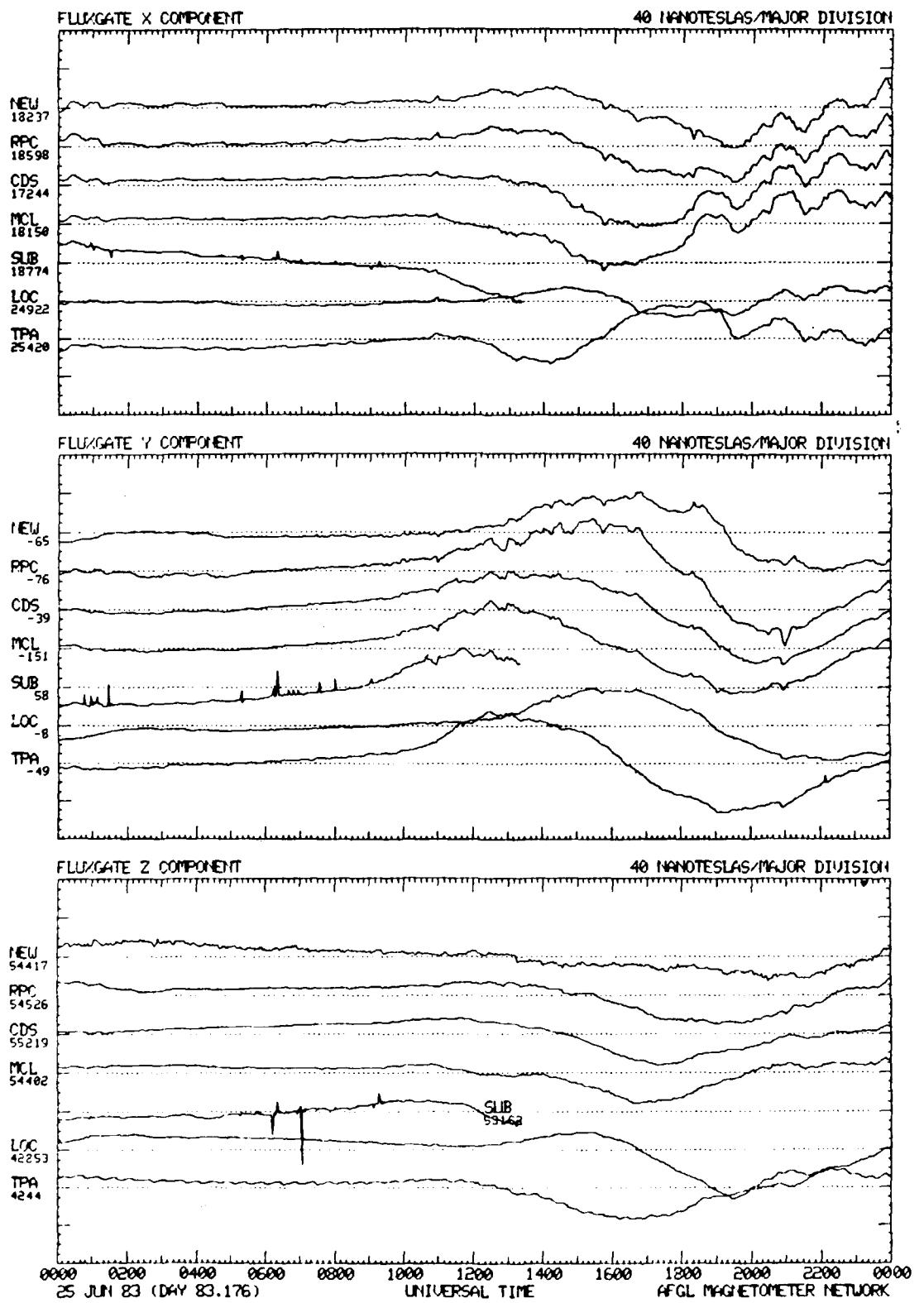


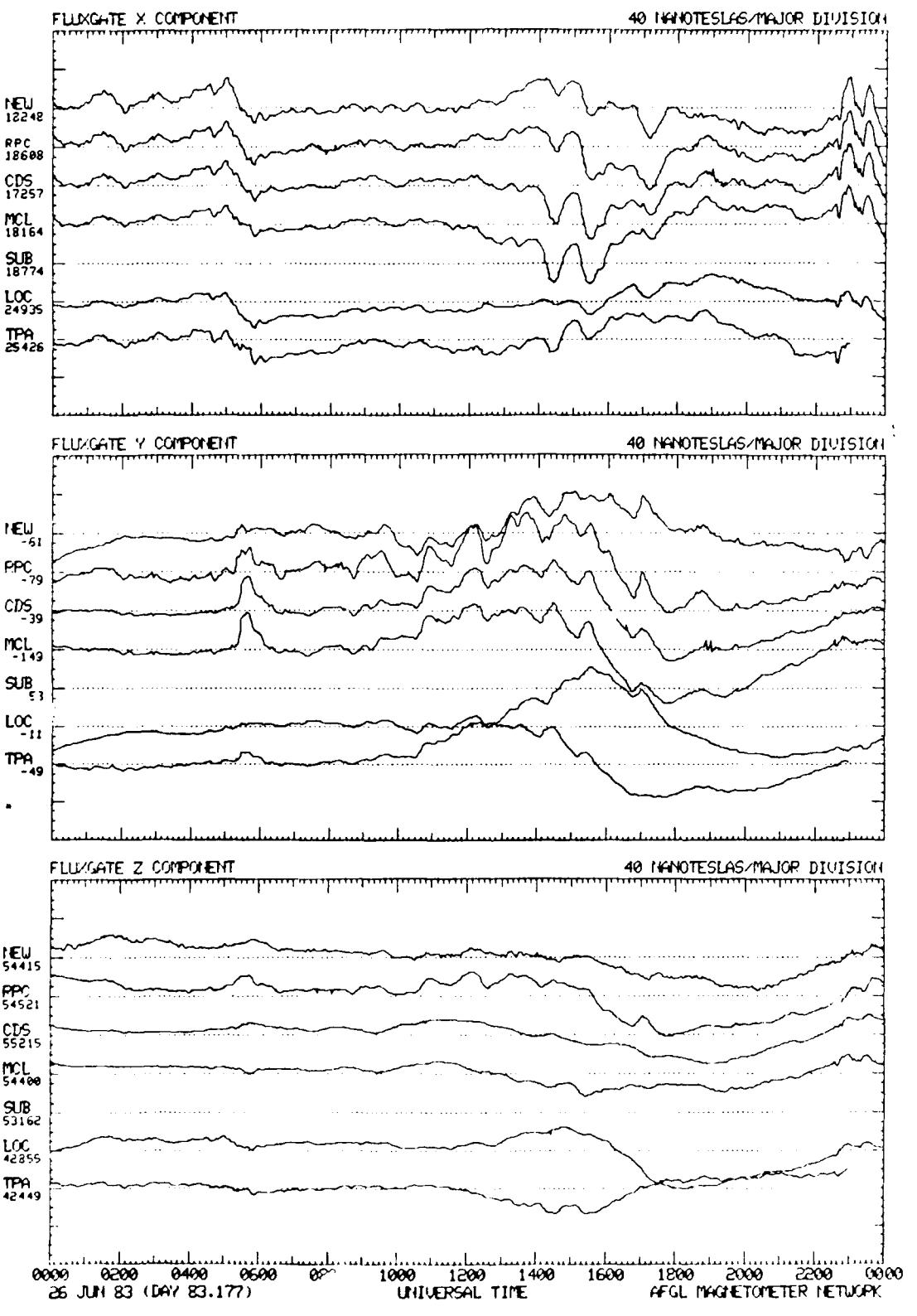


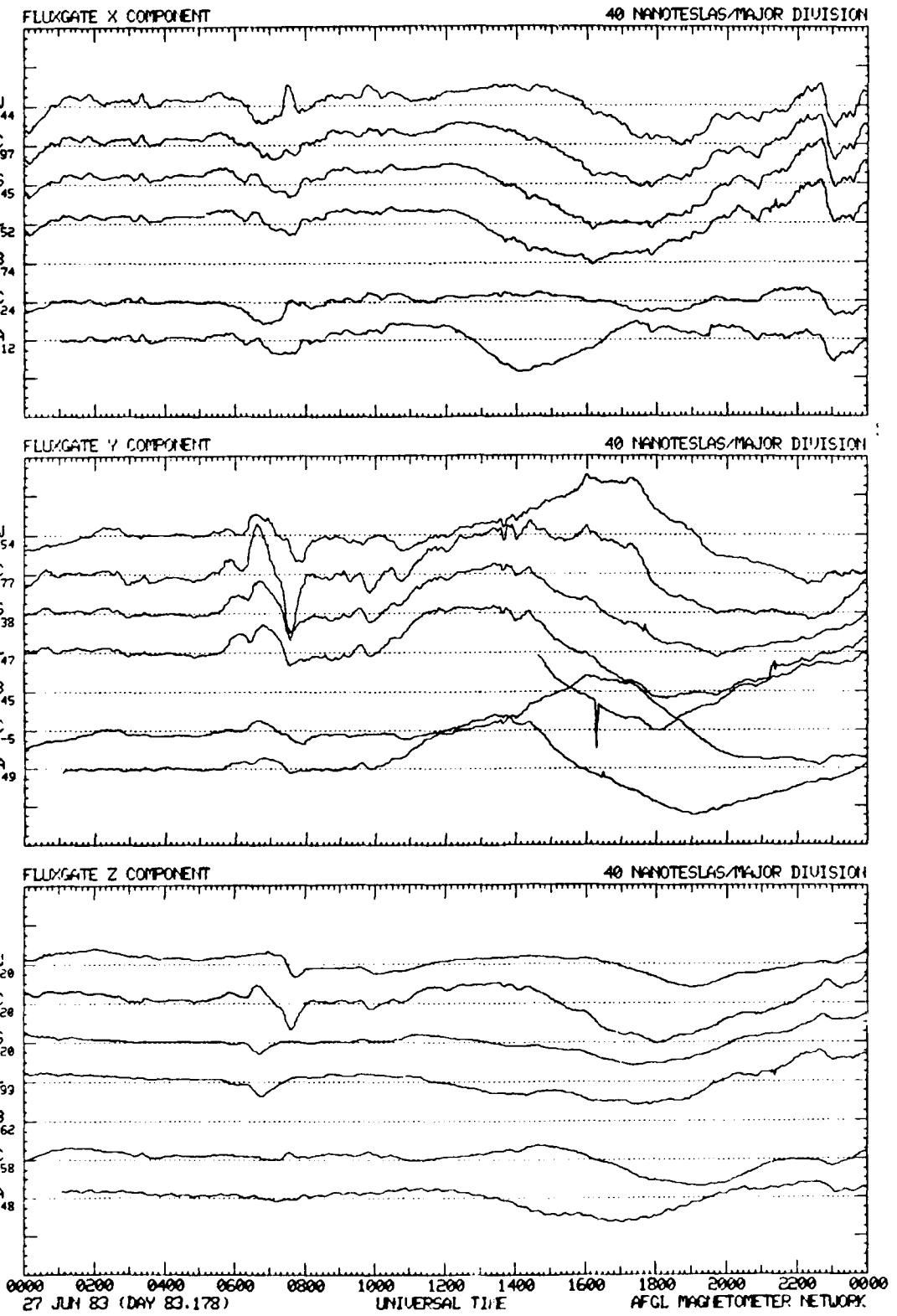


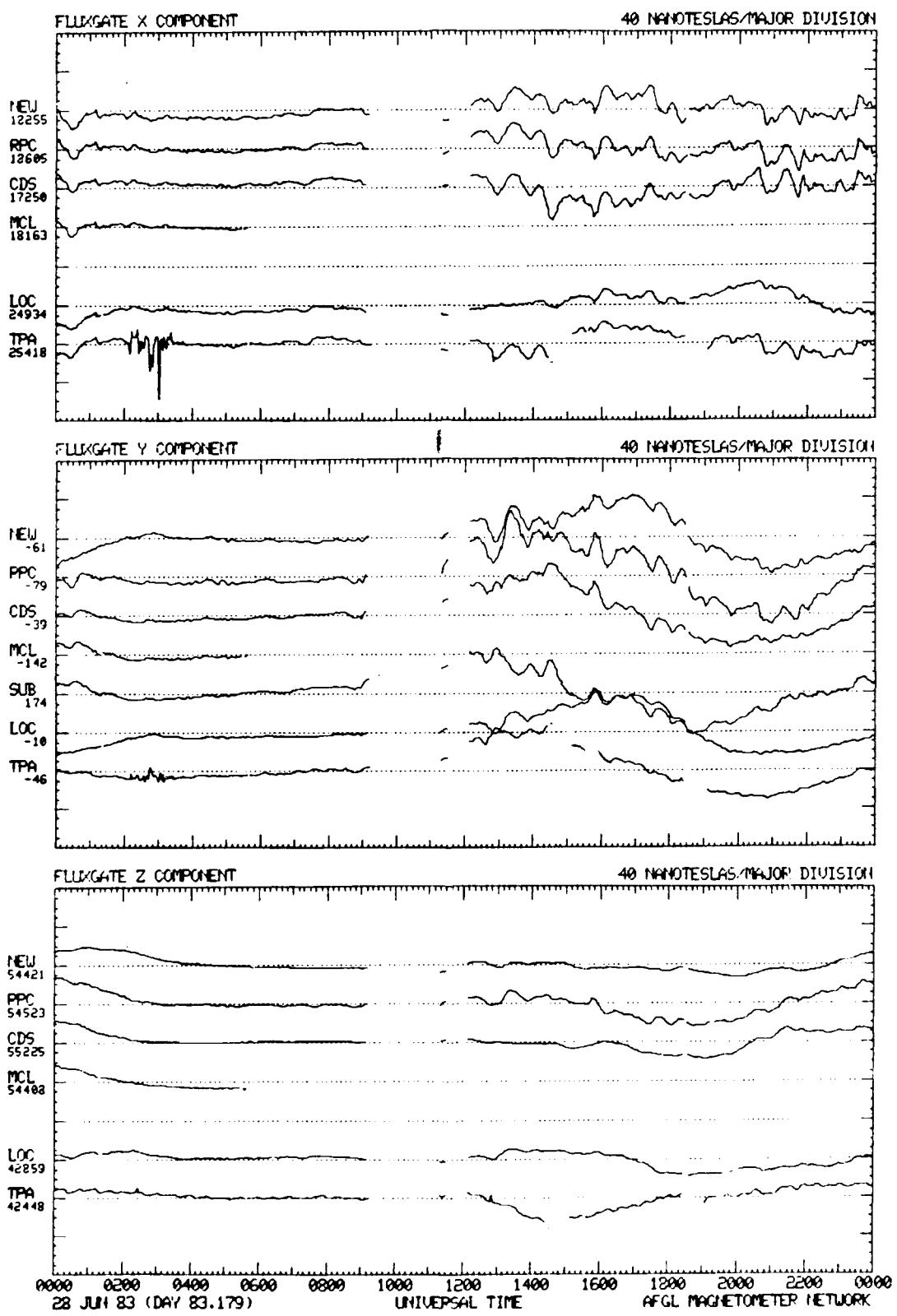












AD-A173 765

DAILY MAGNETograms FOR 1983 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(C) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 21 MAR 85

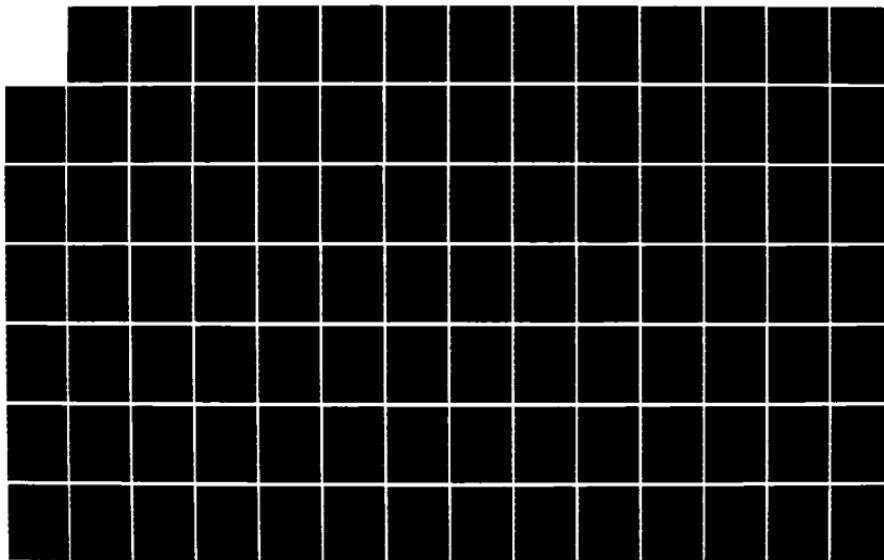
3/3

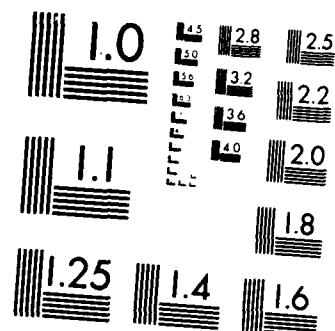
UNCLASSIFIED

AFGL-TR-85-0032

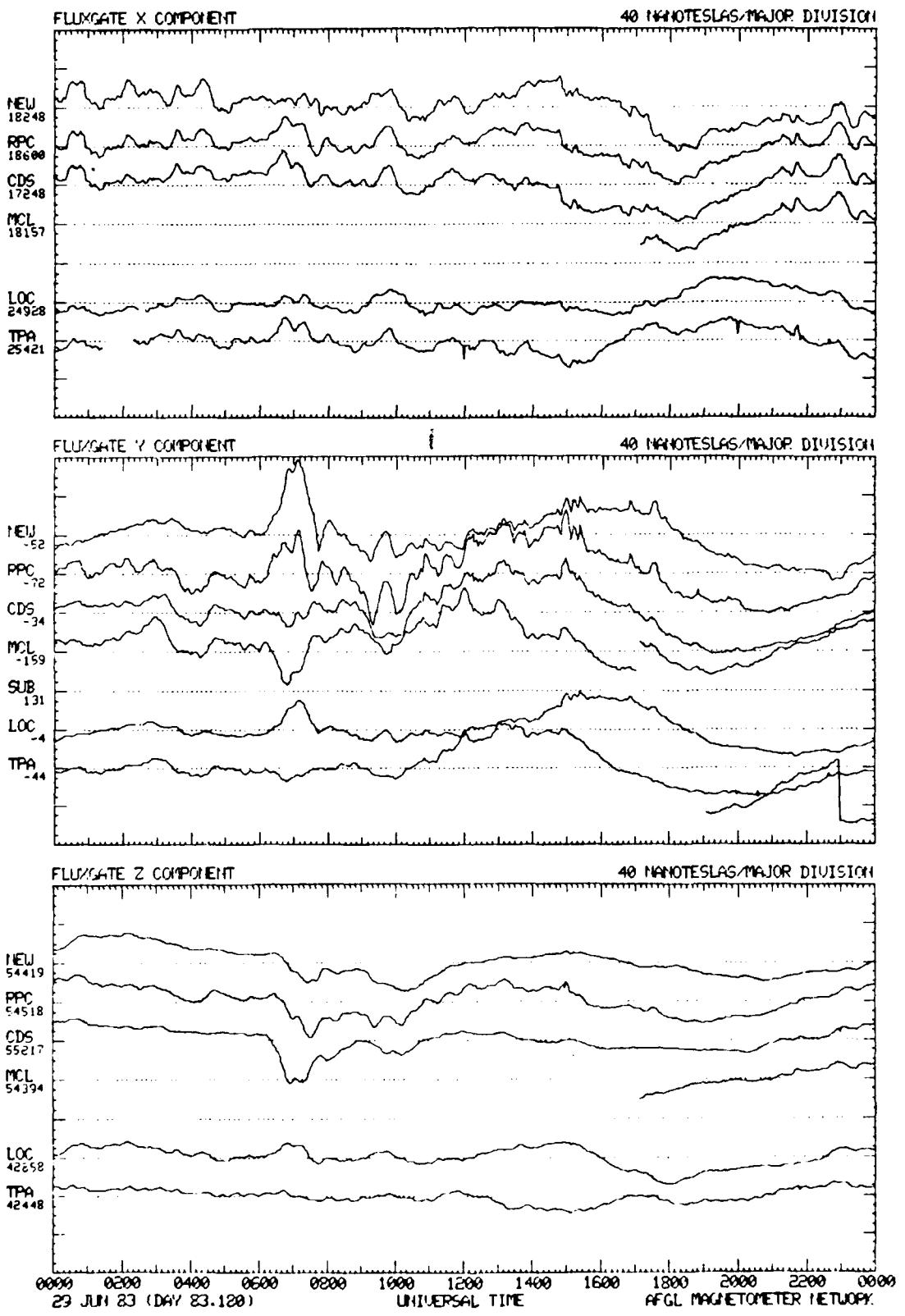
F/G 8/14

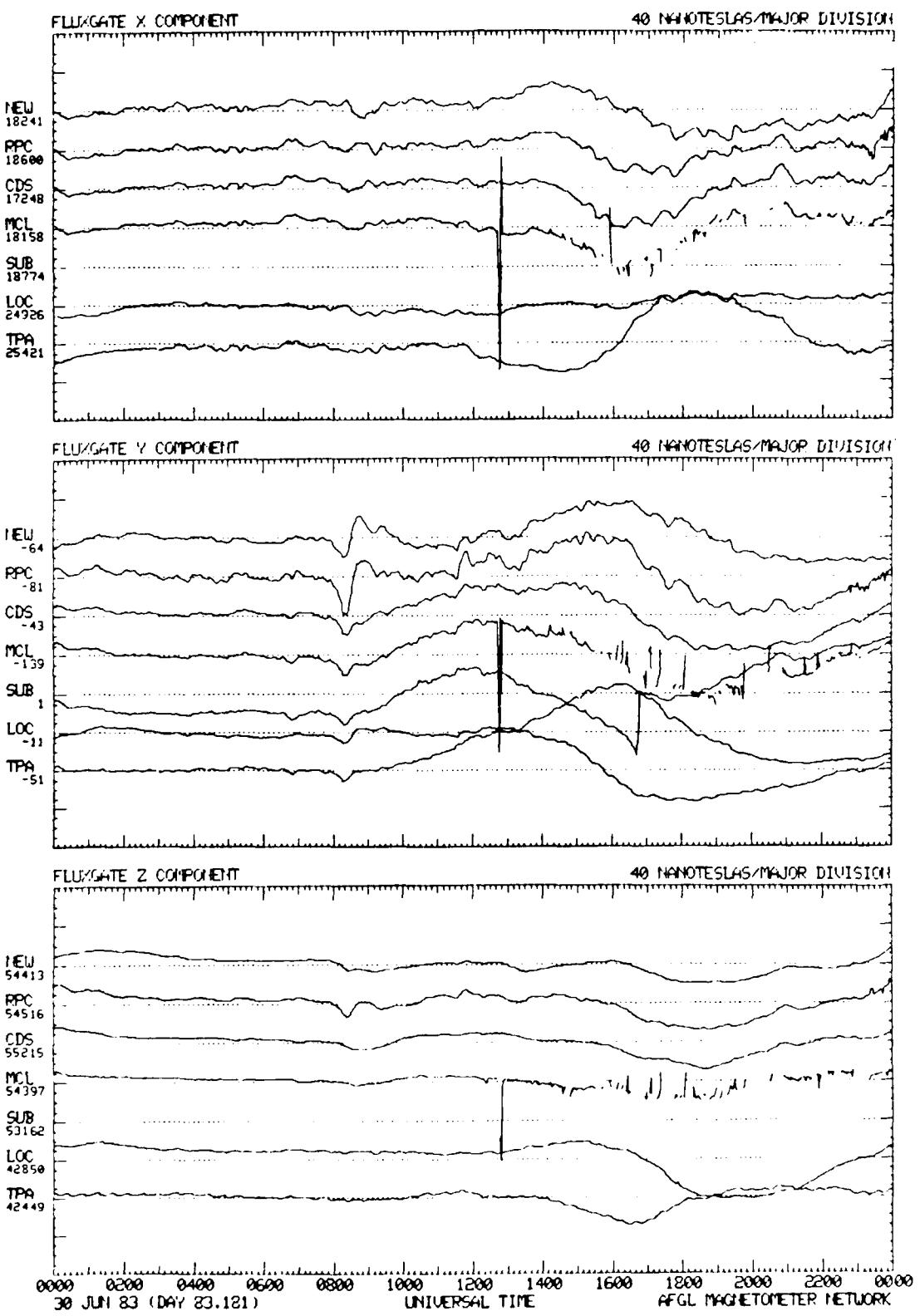
NL

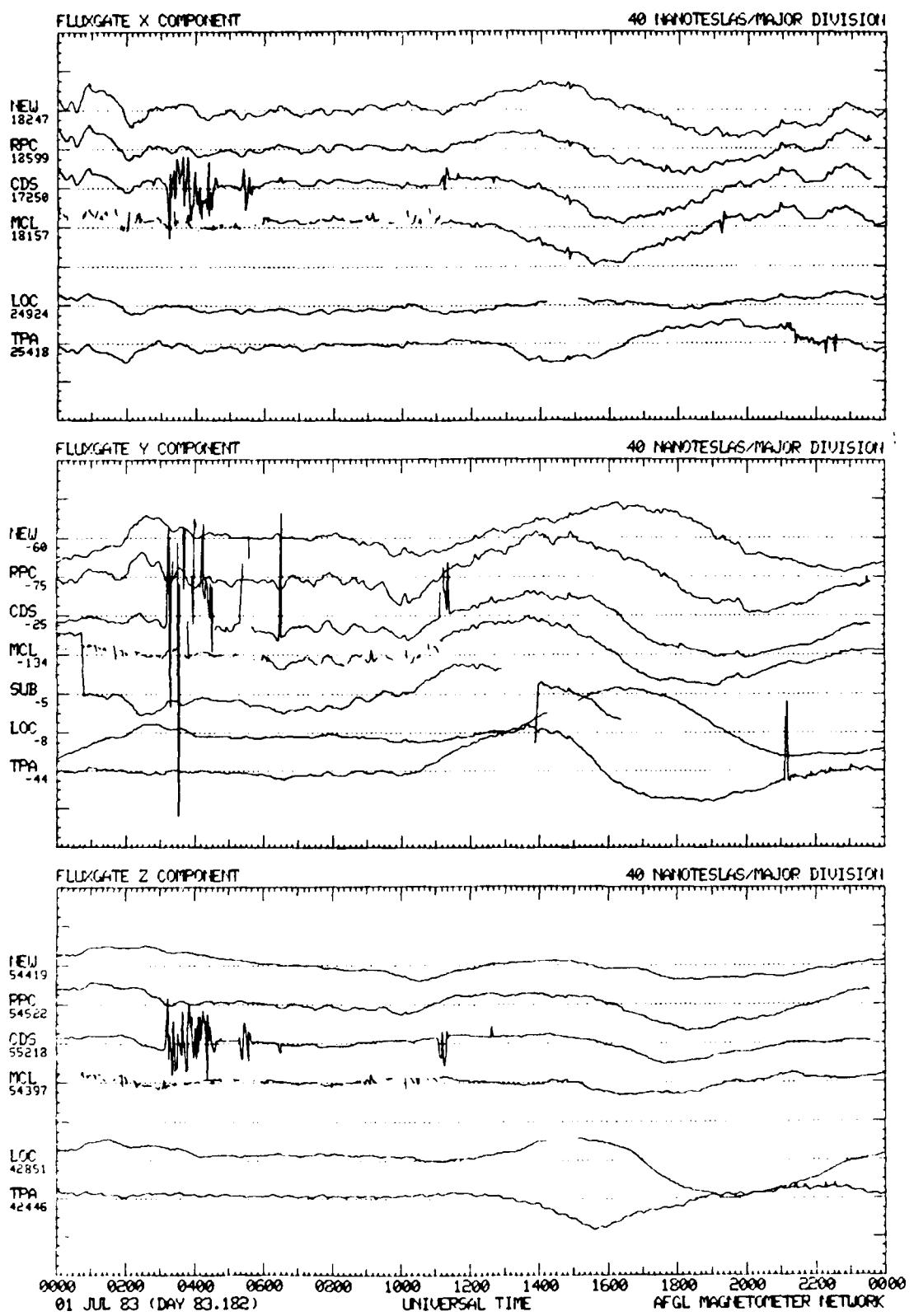


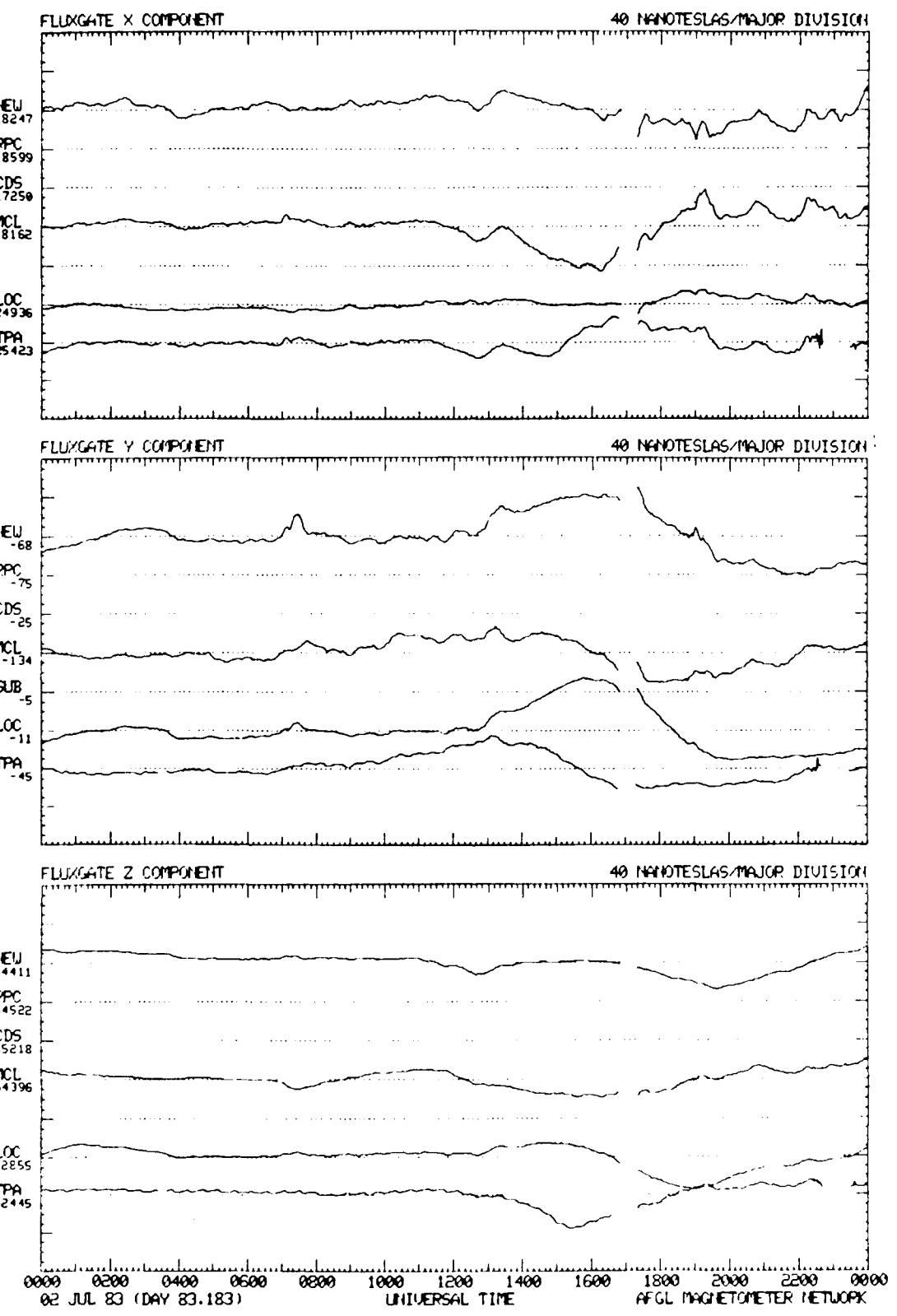


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12247
RPC
12684
CDS
1725
MCL
18163

LOC
24933
TPA
25422

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-65
RPC
-76
CDS
-38
MCL
-133
SUB
-5
LOC
-9
TPA
-45

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54418
RPC
54513
CDS
55210
MCL
54393

LOC
42553
TPA
42447

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 JUL 83 (DAY 83.184) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

HEJ
12246
RPC
18598
CDS
17256
MCL
18162

LOC
24932
TPA
25423

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

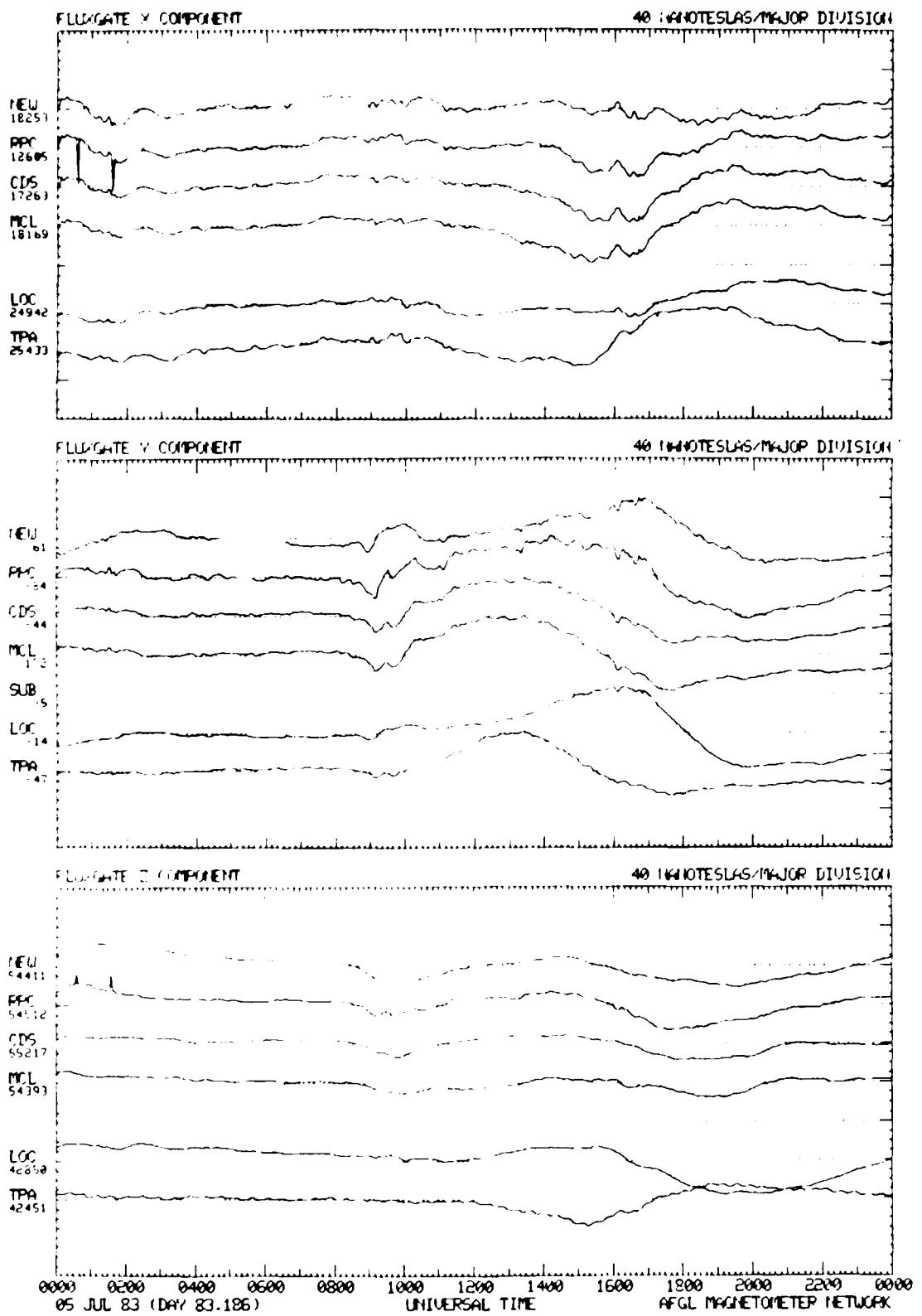
HEJ
-65
RPC
-83
CDS
-40
MCL
-139
SUB
-5
LOC
-12
TPA
-47

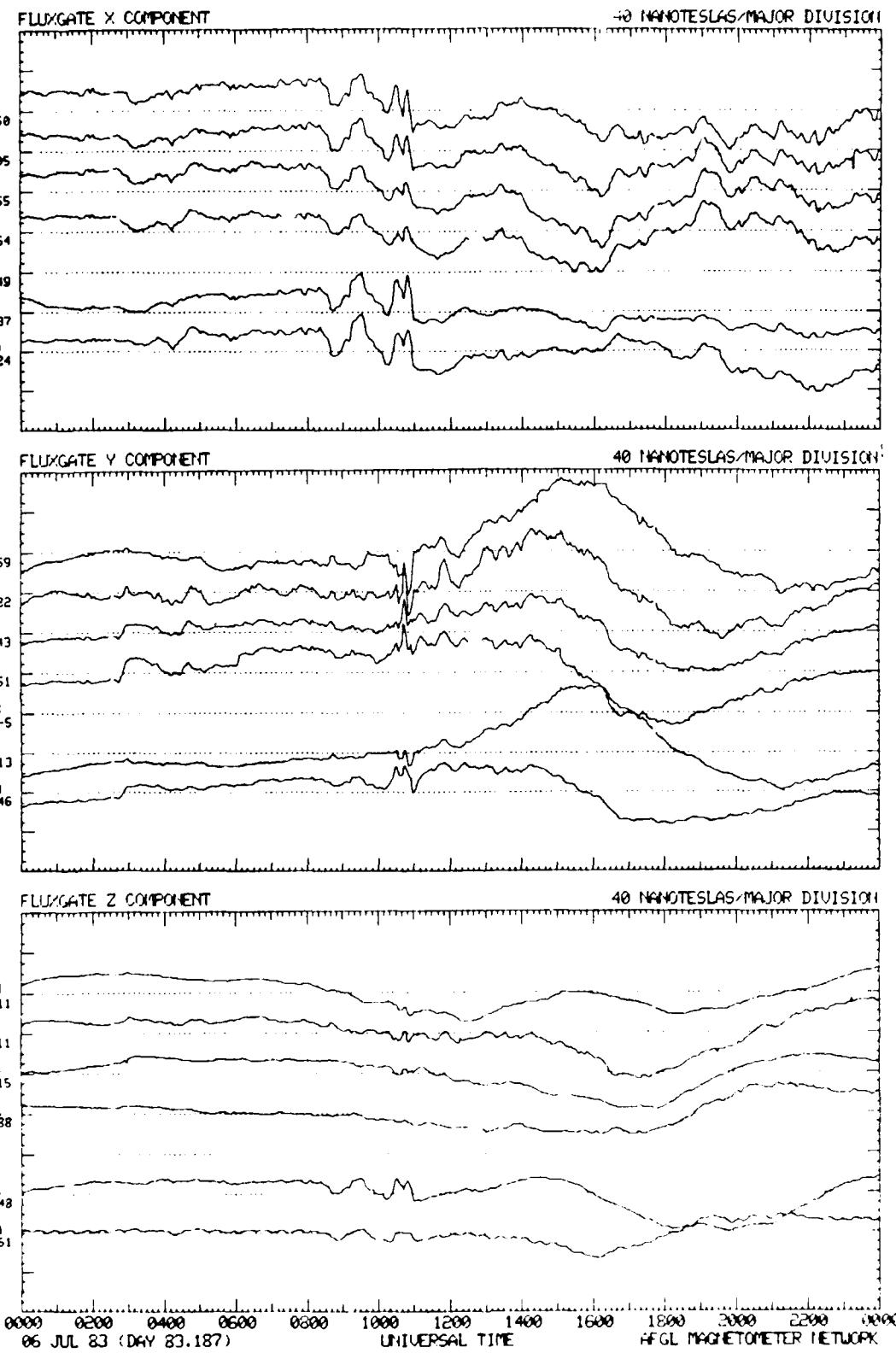
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

HEJ
54411
RPC
54516
CDS
55214
MCL
54395
LOC
42251
TPA
42450

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
04 JUL 83 (DAY 83.125) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

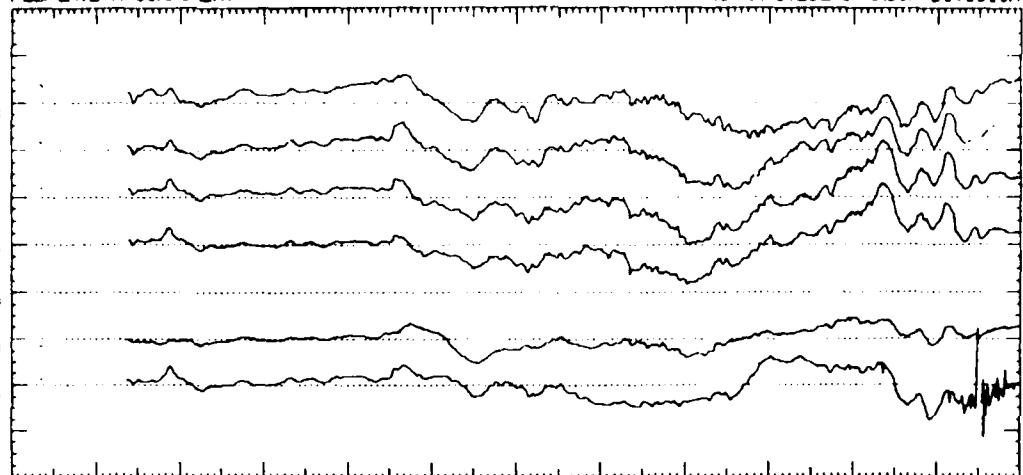




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

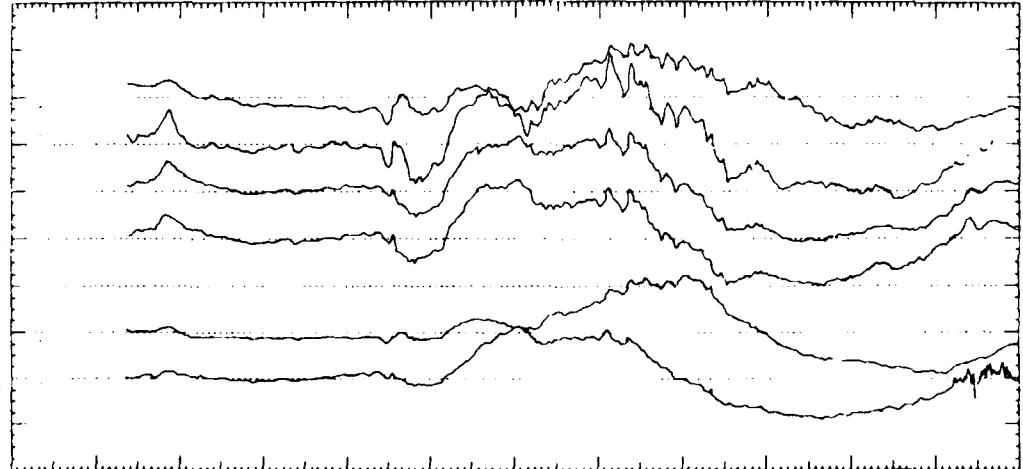
NEW
18243
RPC
18604
CDS
17249
MCL
18157
SUB
16949
LOC
24929
TPA
25415



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-61
RPC
-22
CDS
-42
MCL
-153
SUB
-5
LOC
-13
TPA
-45

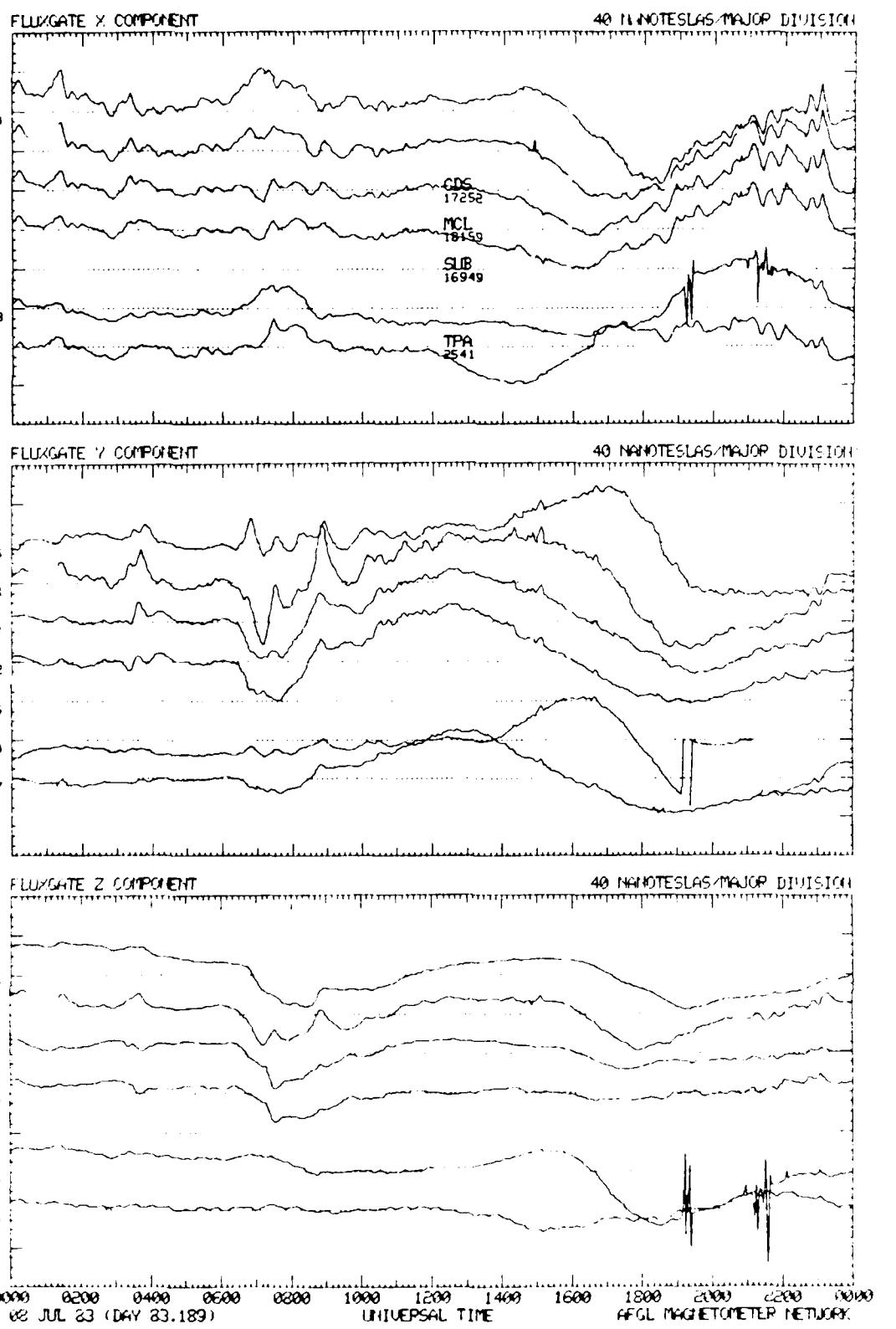


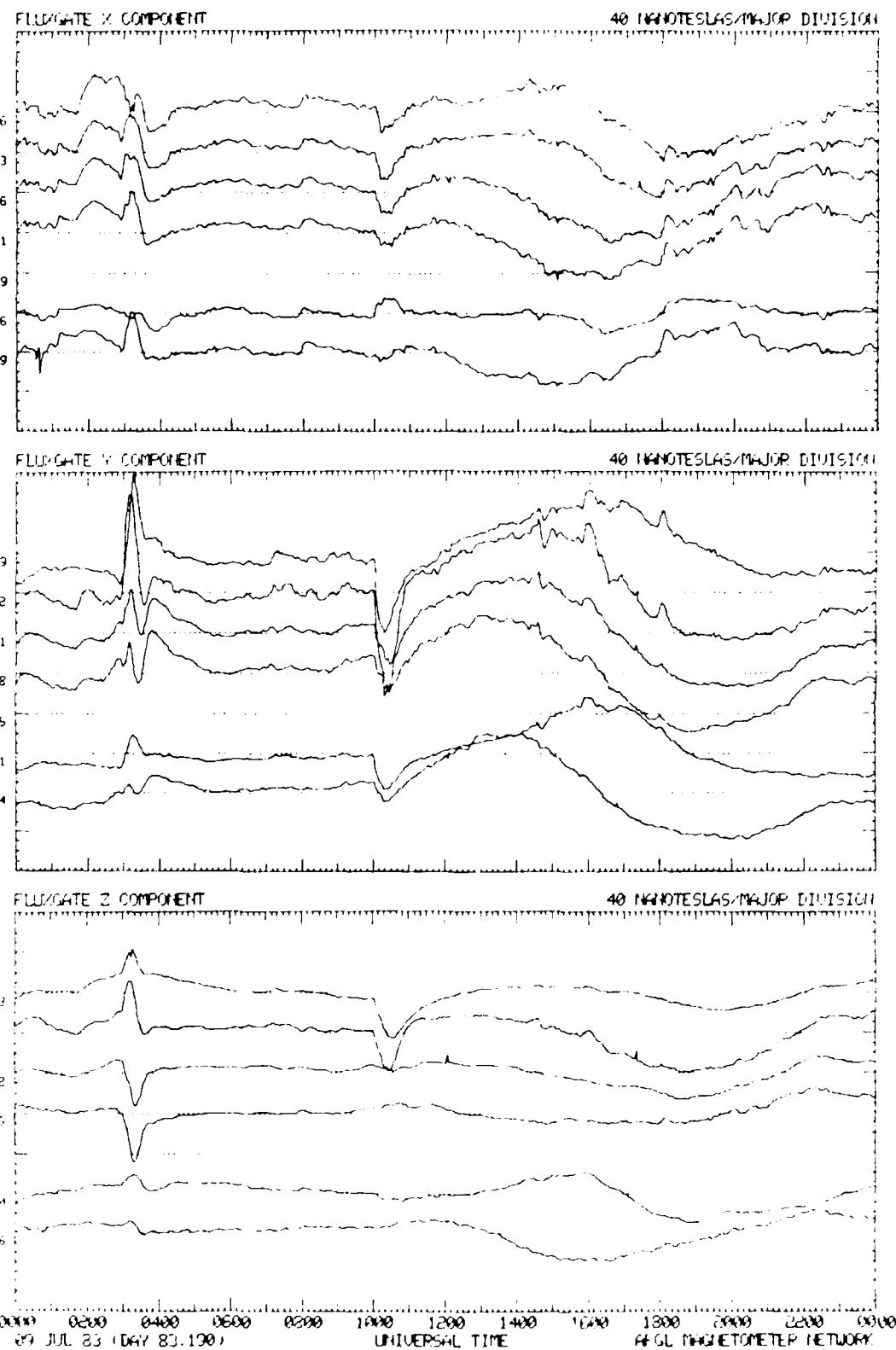
FLUXGATE Z COMPONENT

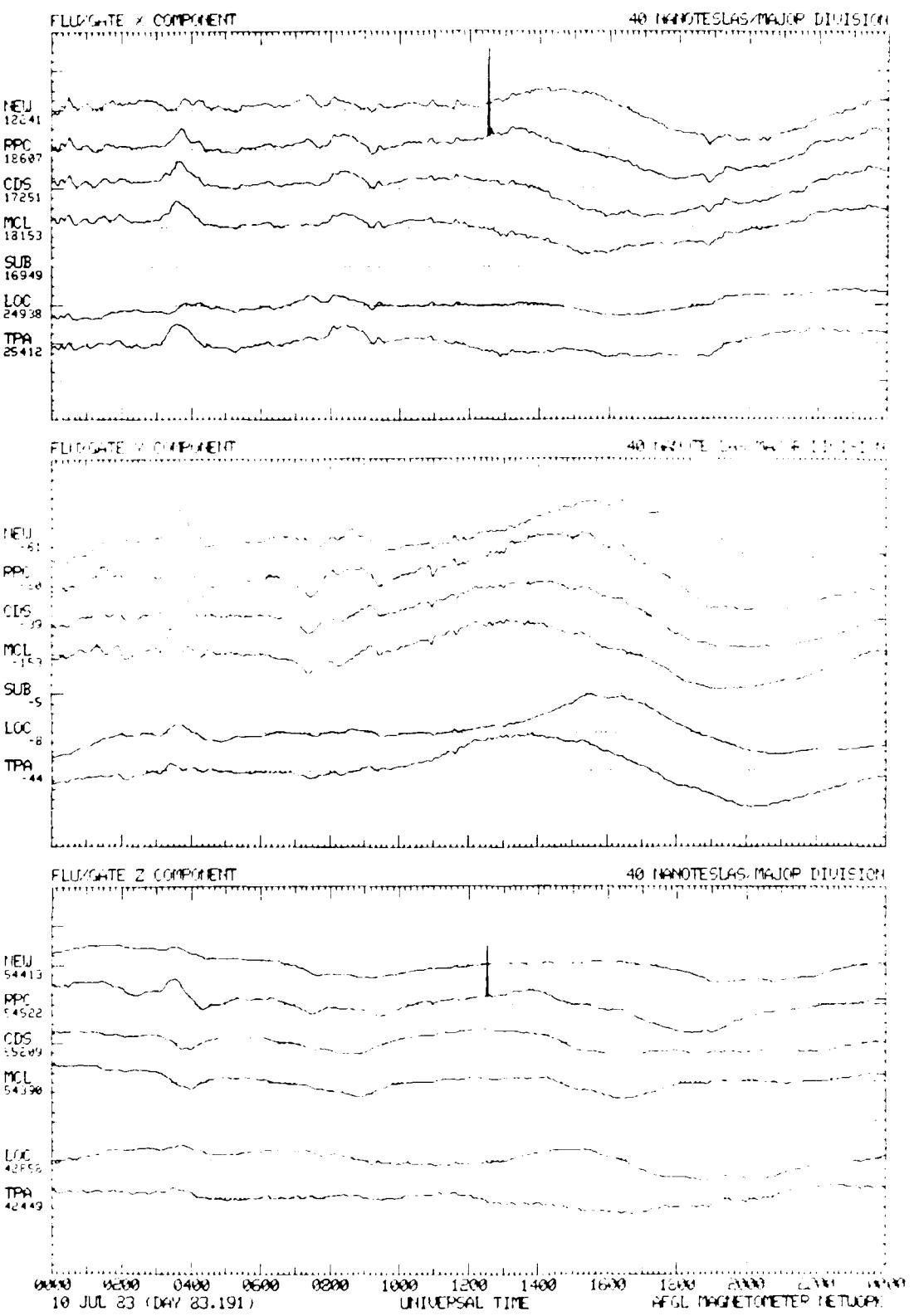
40 NANOTESLAS/MAJOR DIVISION

NEW
54402
RPC
54513
CDS
55212
MCL
54384
LOC
42642
TPA
42450

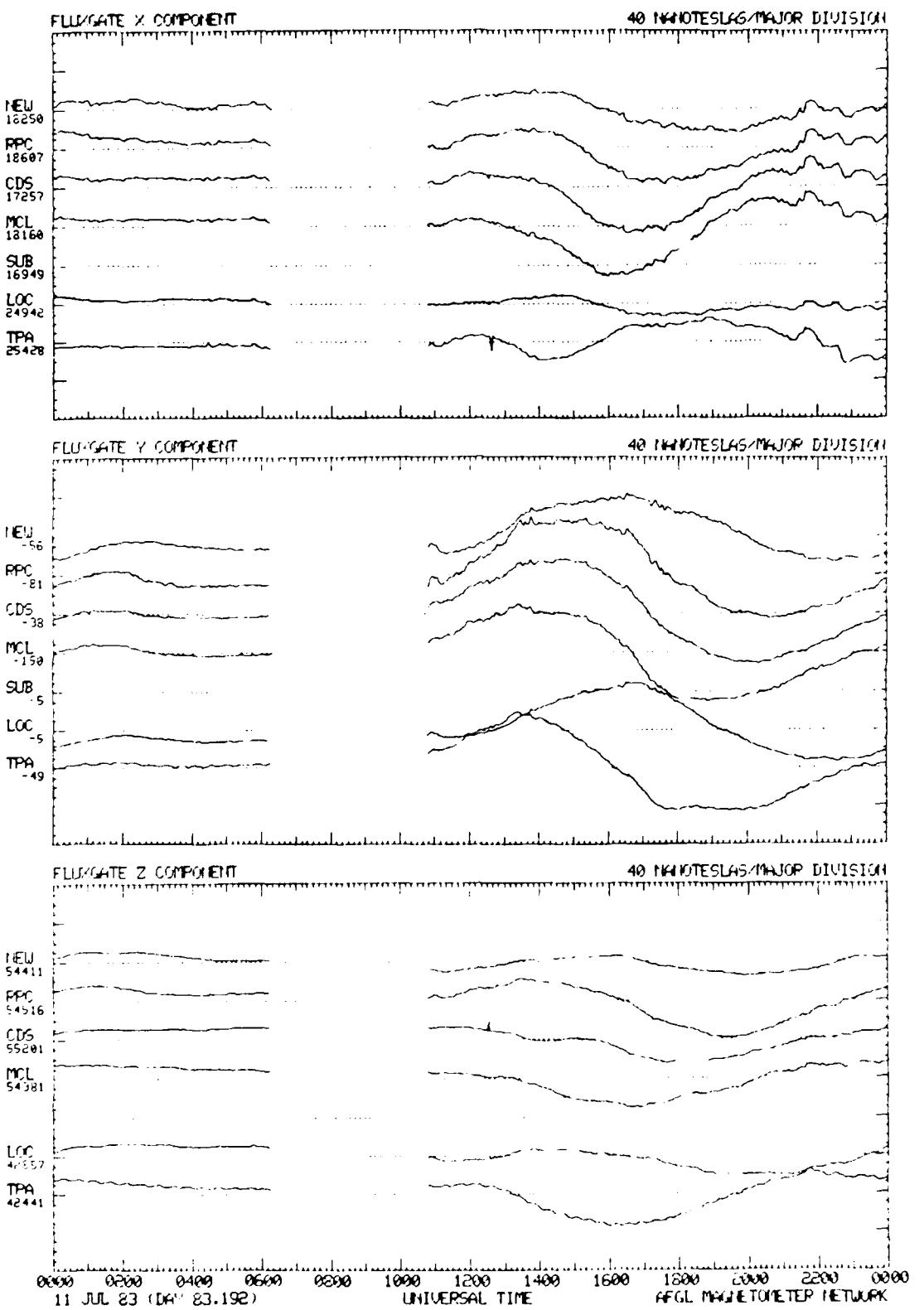
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 JUL 83 (DAY 83.188) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

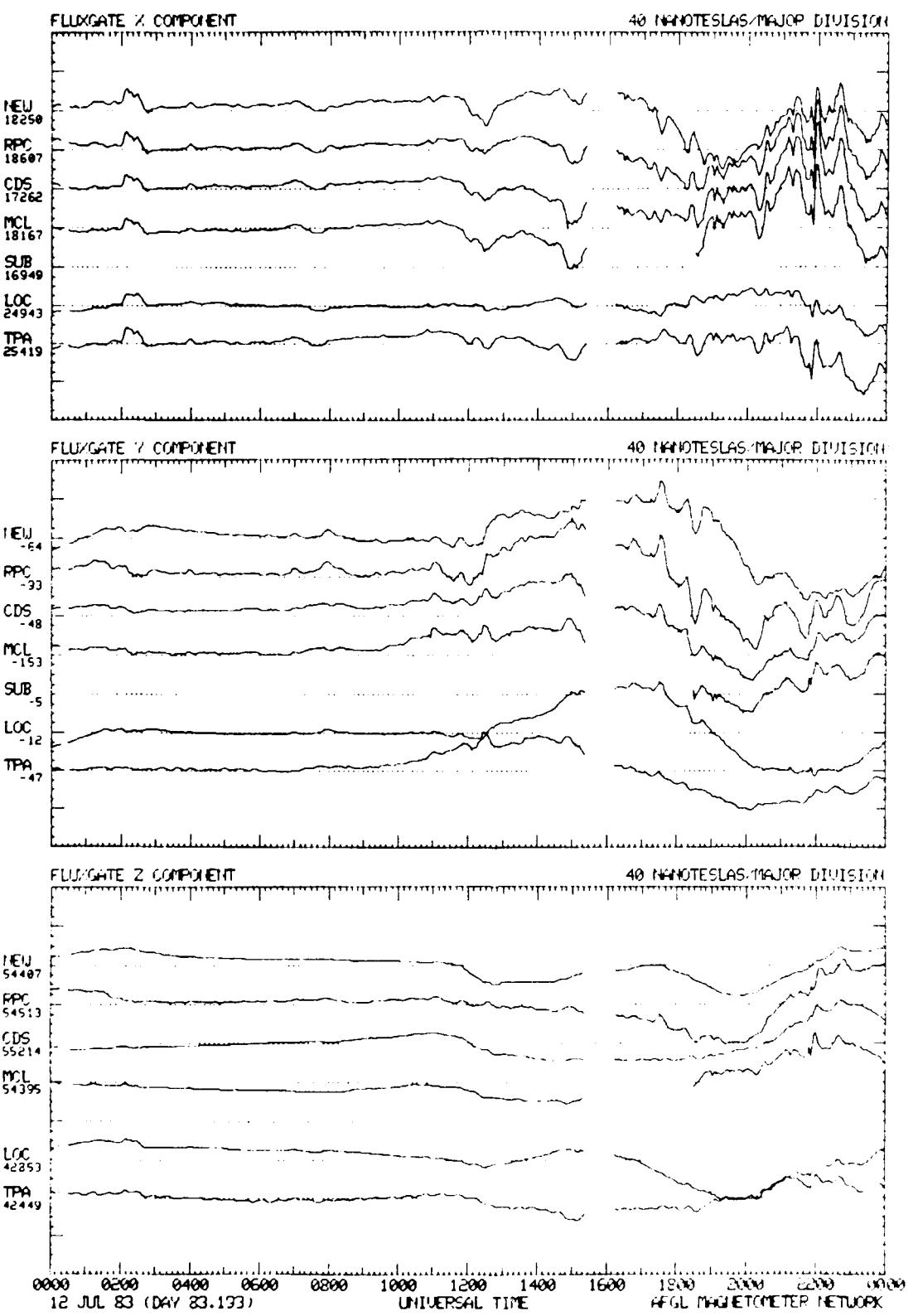


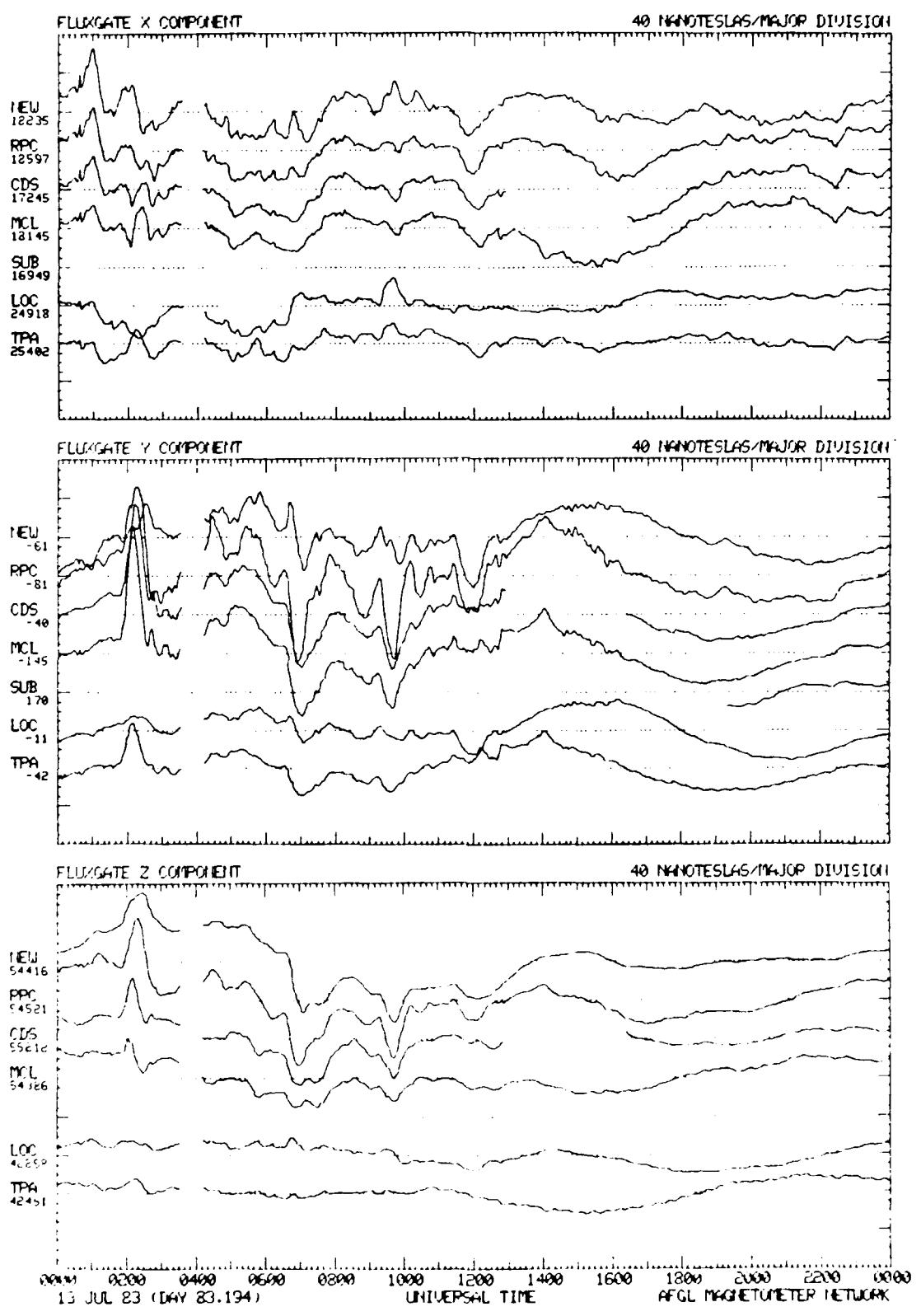


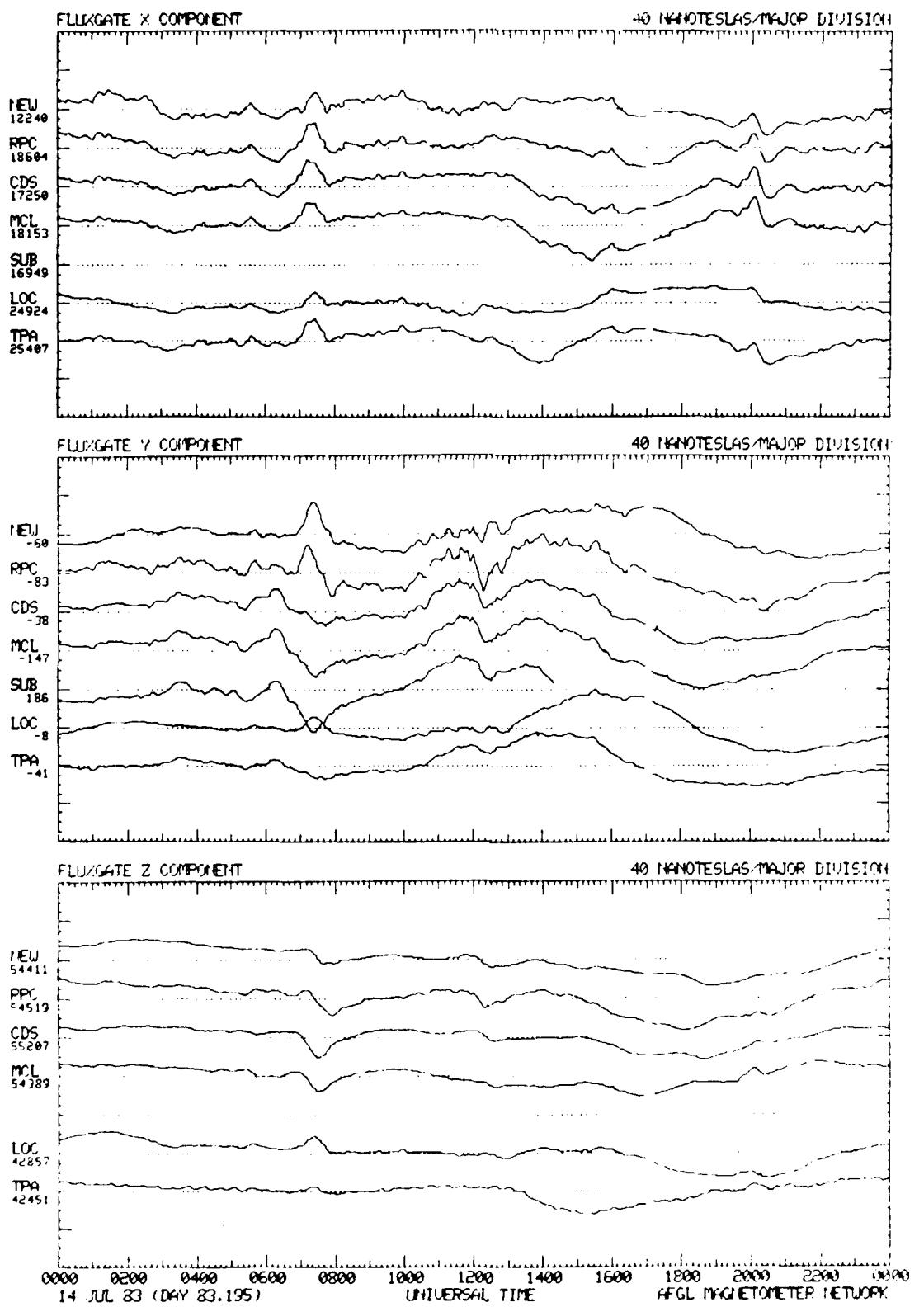


0000 0400 0800 0200 1000 1200 1400 1600 2000 2400 1800 2200 1600
10 JUL 23 (DAY 23.191) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12244
RPC
13609
CDS
17259
MCL
18162
SUB
16949
LOC
24927
TPA
25418

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

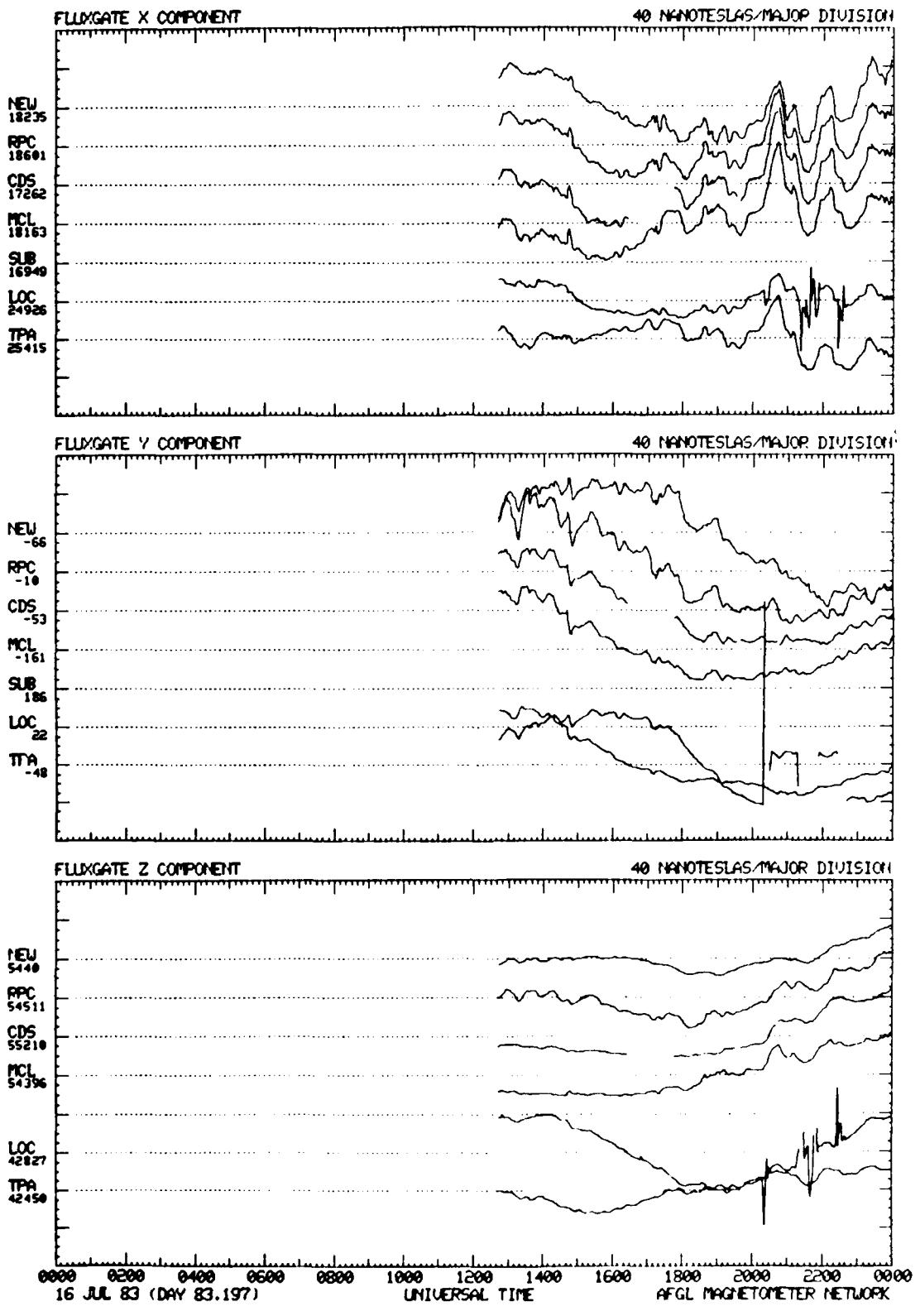
NEW
-65
RPC
-85
CDS
-34
MCL
-14
SUB
-186
LOC
-9
TPA
-39

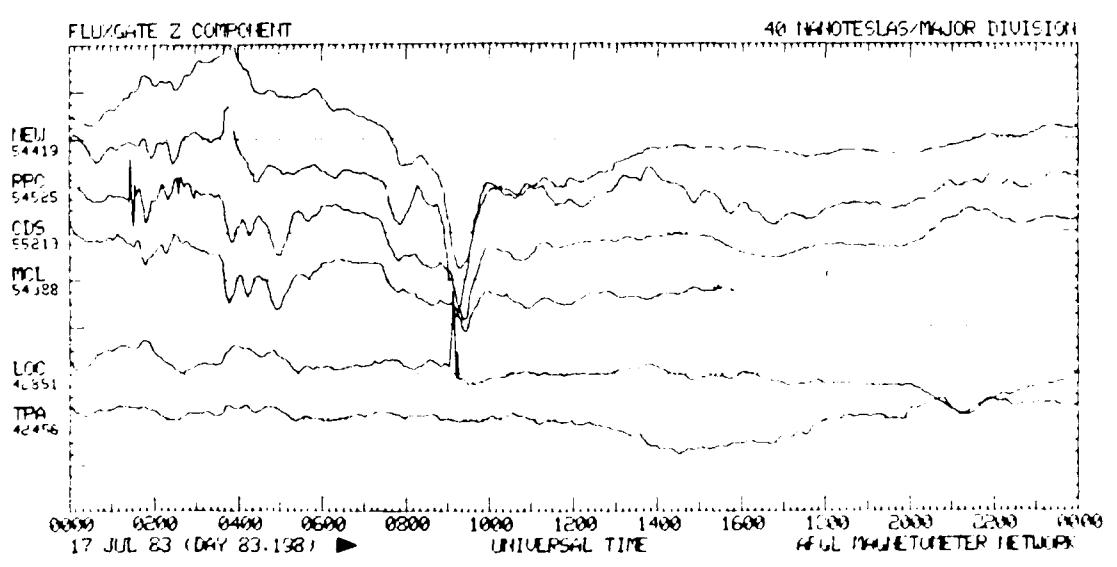
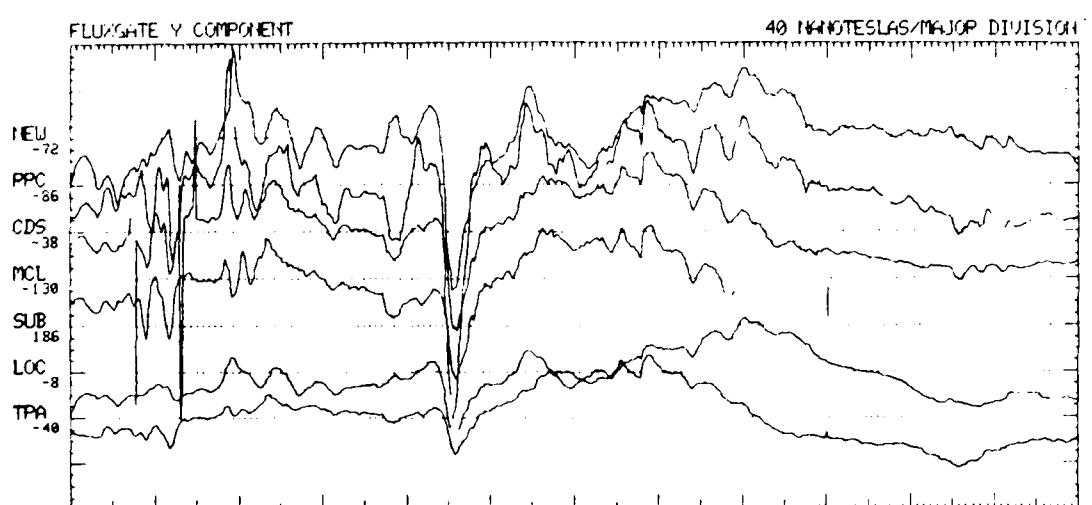
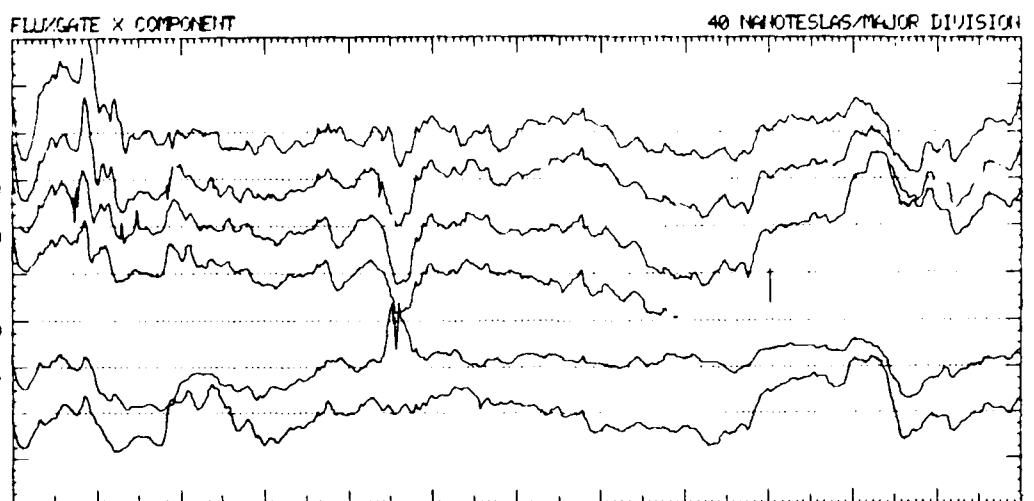
FLUXGATE Z COMPONENT

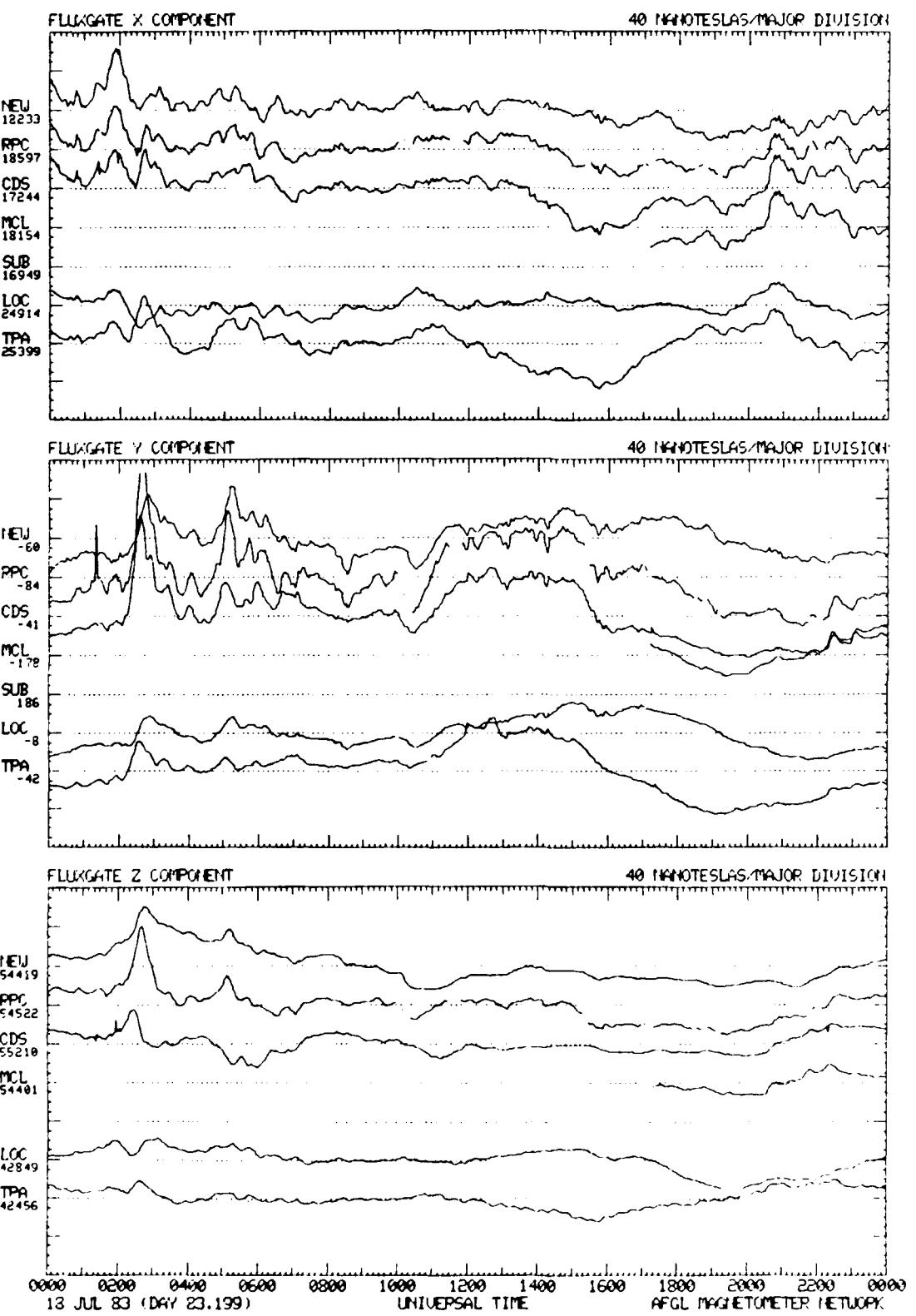
40 NANOTESLAS/MAJOR DIVISION

NEW
54411
RPC
54521
CDS
55207
MCL
54389
LOC
42853
TPA
42455

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 JUL 83 (DAY 23.196) UNIVERSAL TIME AFGL MAGNET METER NETWORK

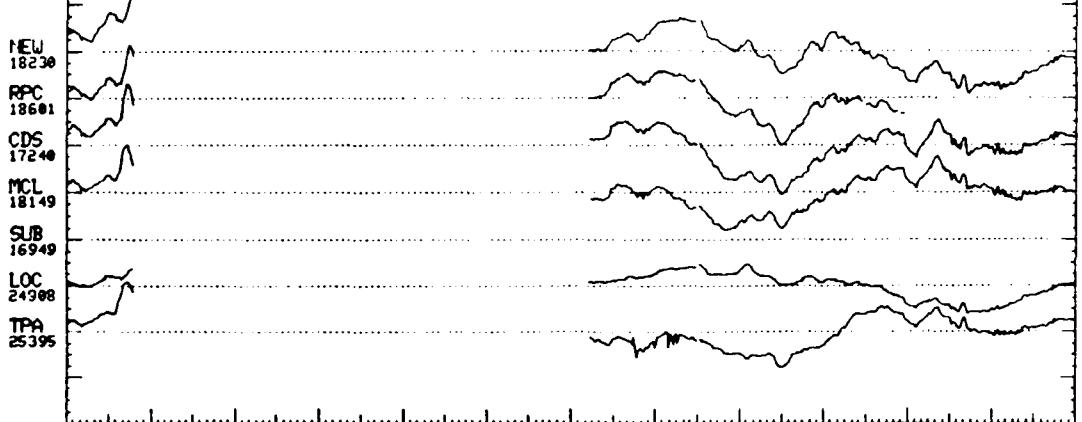






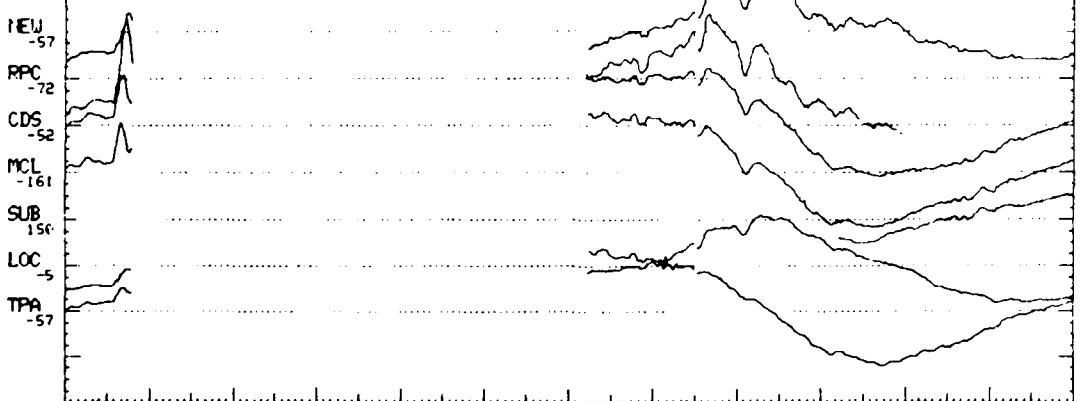
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



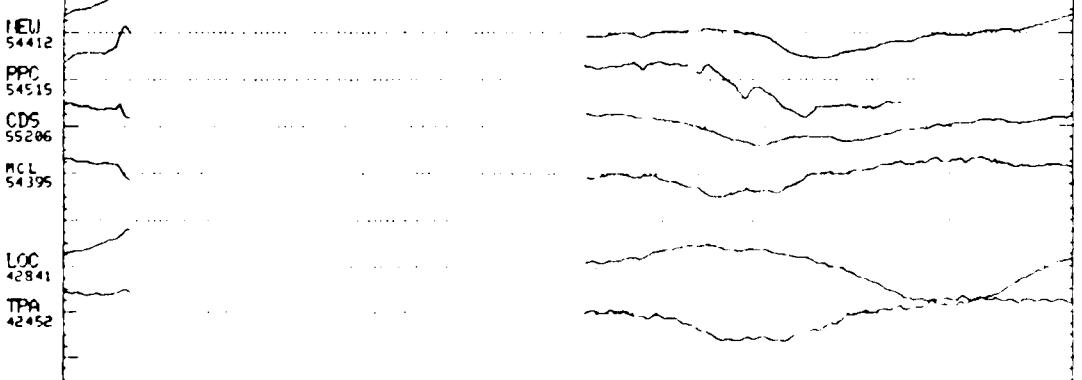
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

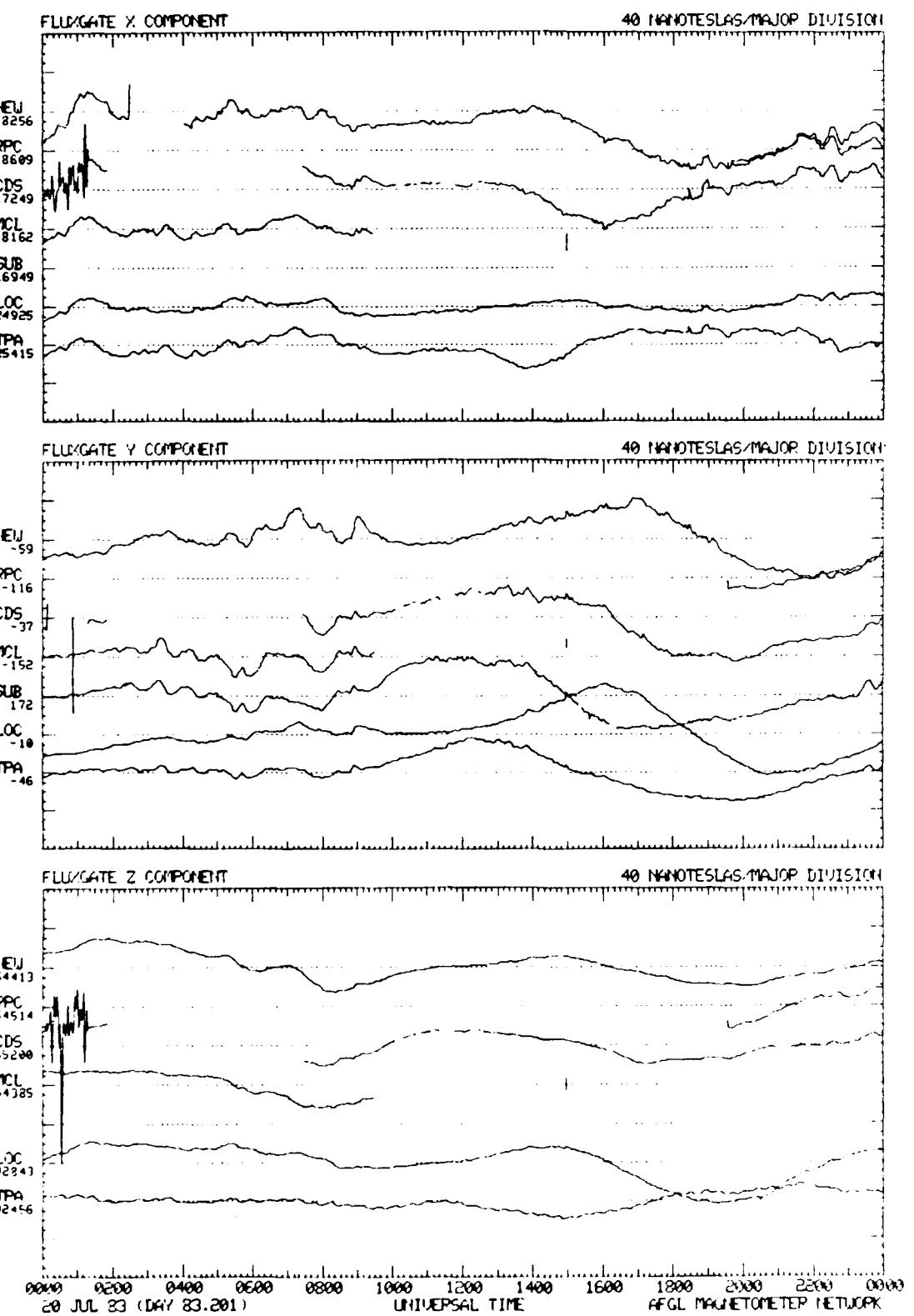


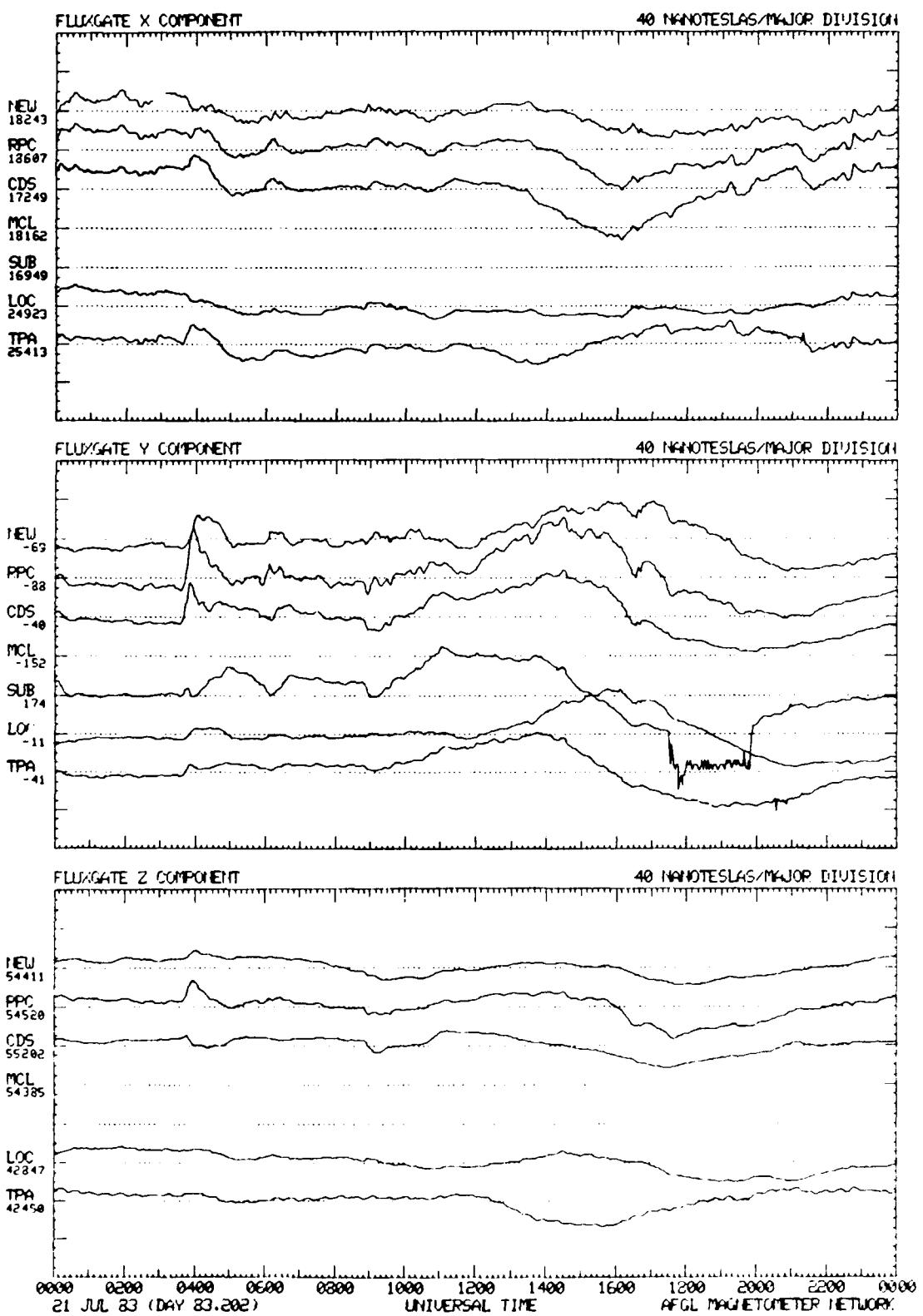
FLUXGATE Z COMPONENT

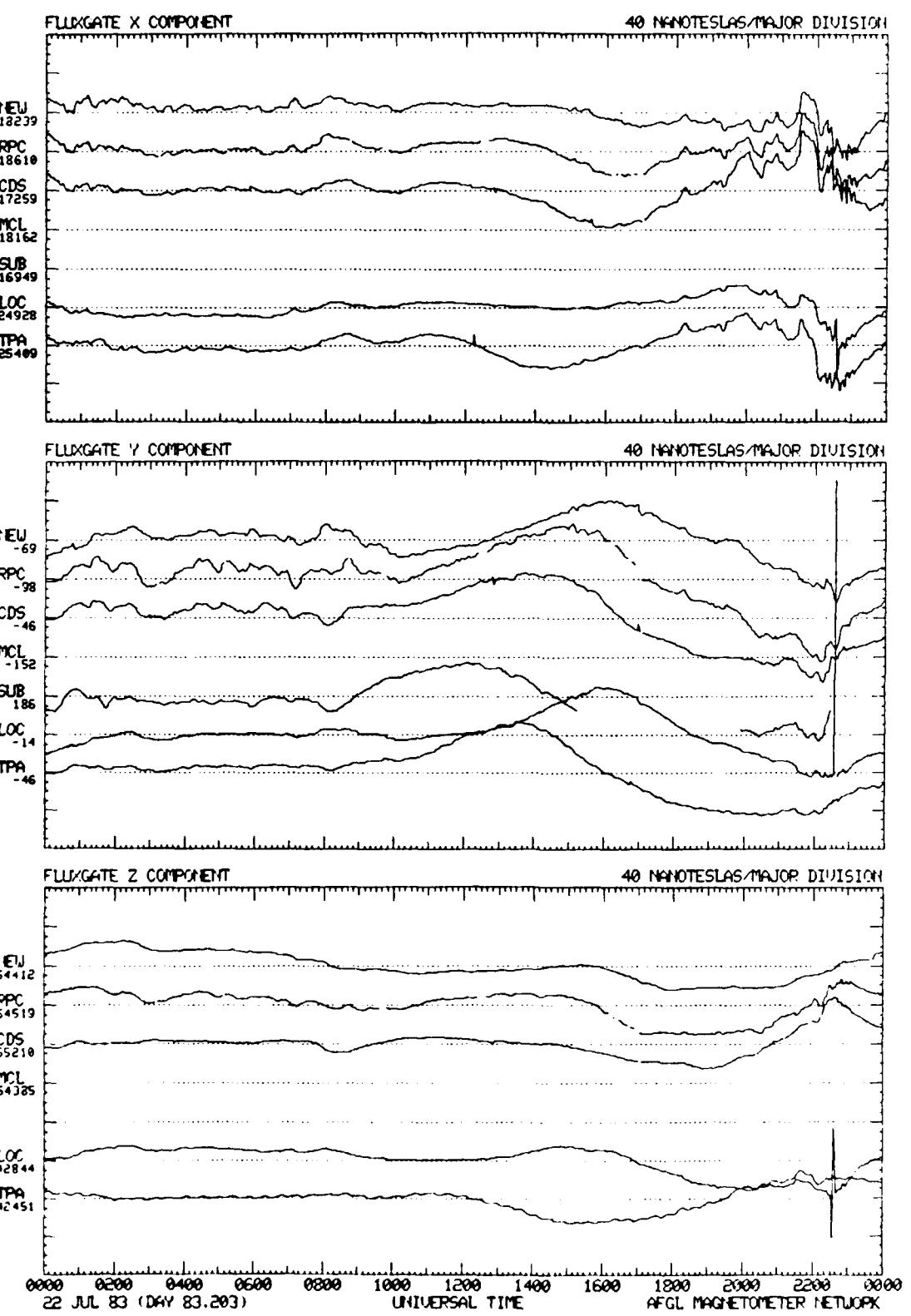
40 NANOTESLAS/MAJOR DIVISION

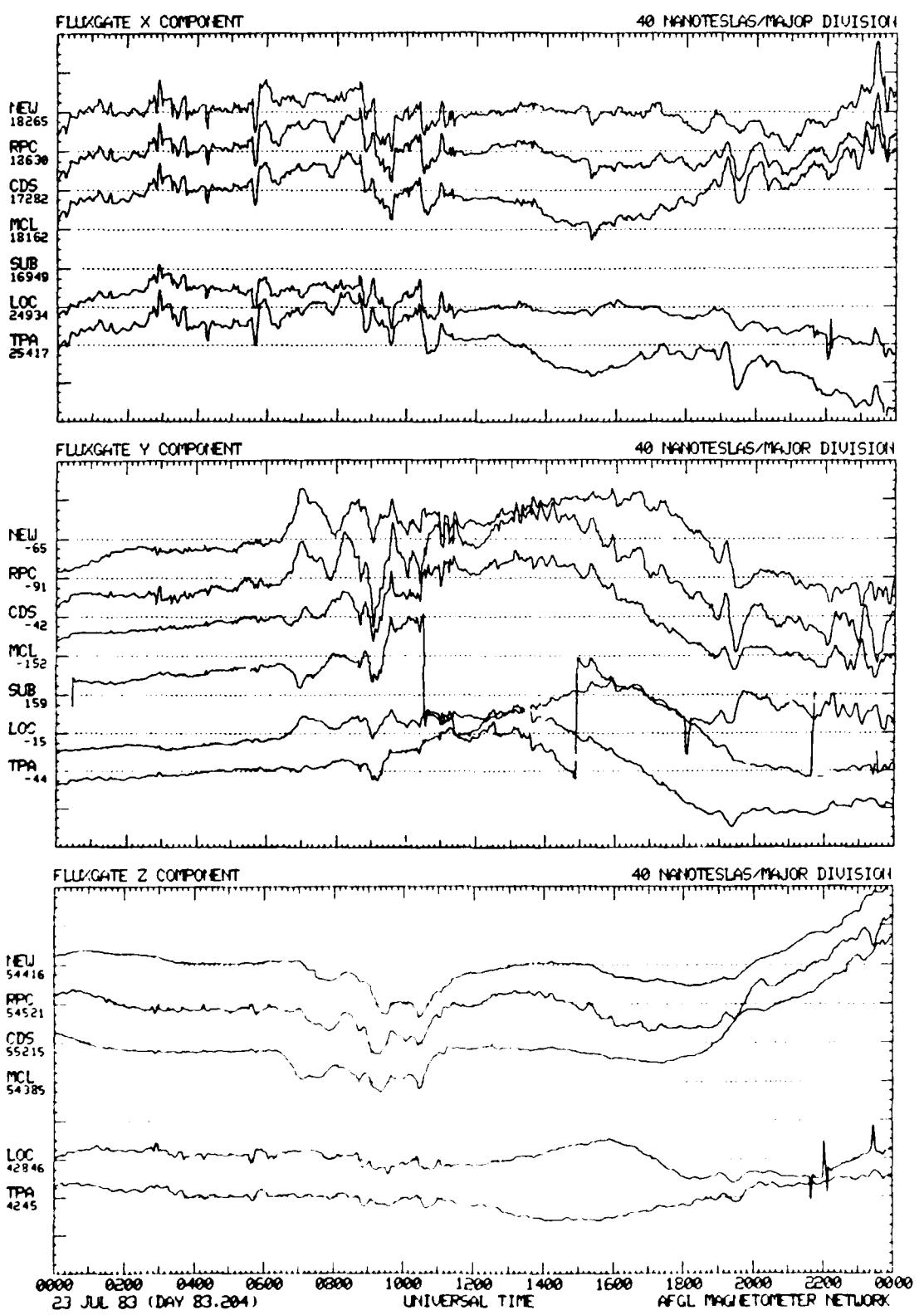


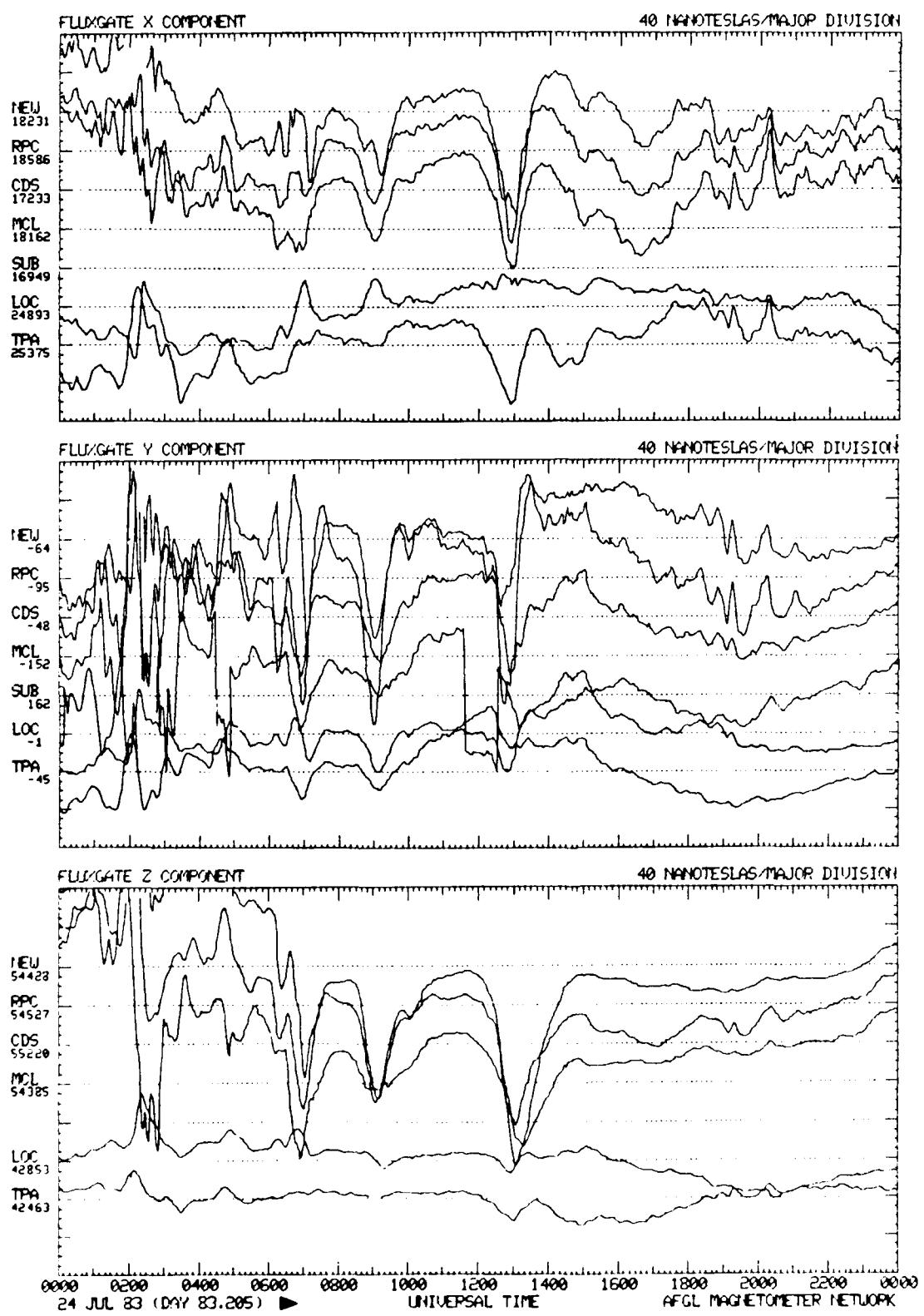
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 JUL 83 (DAY 23.200) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

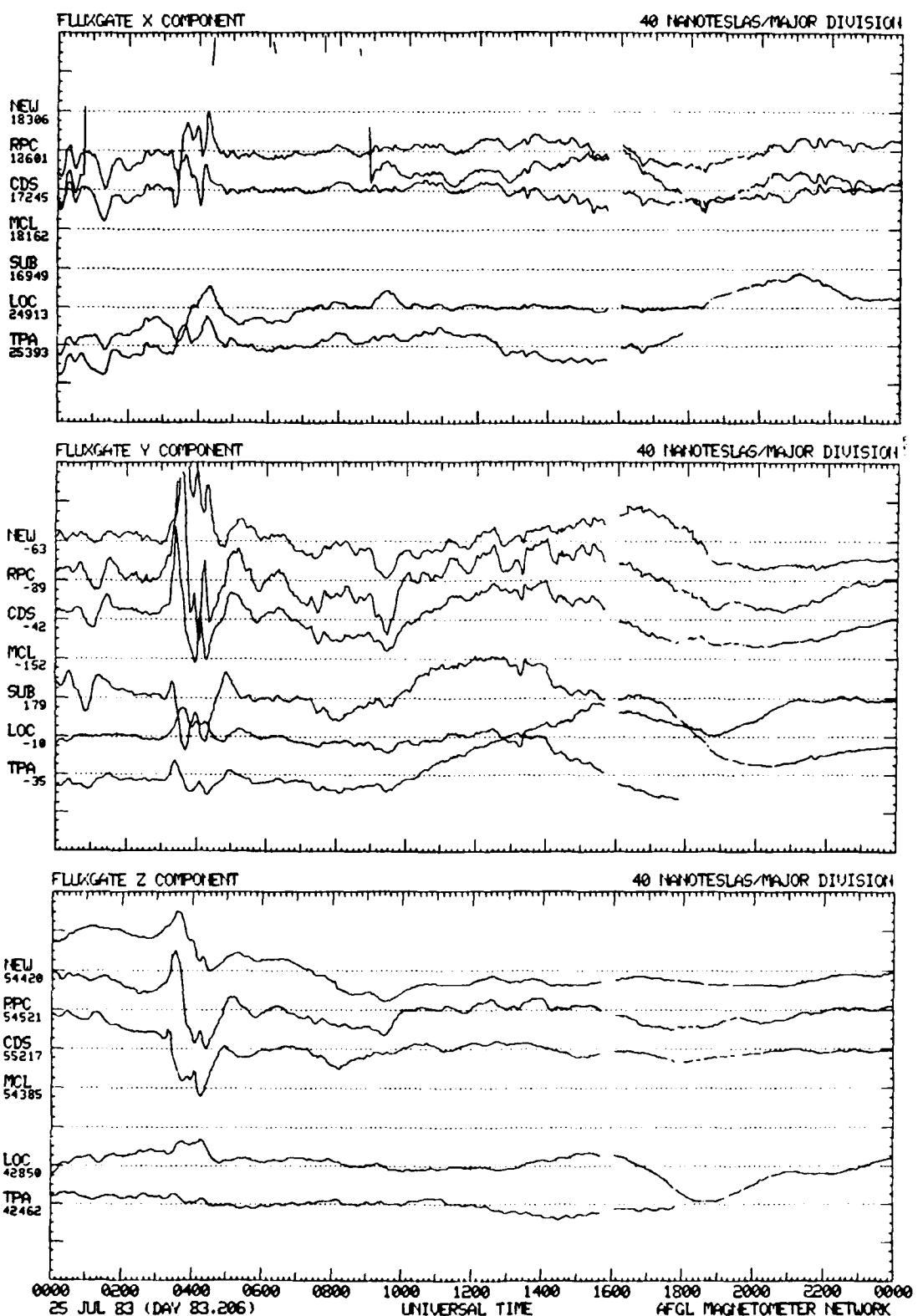


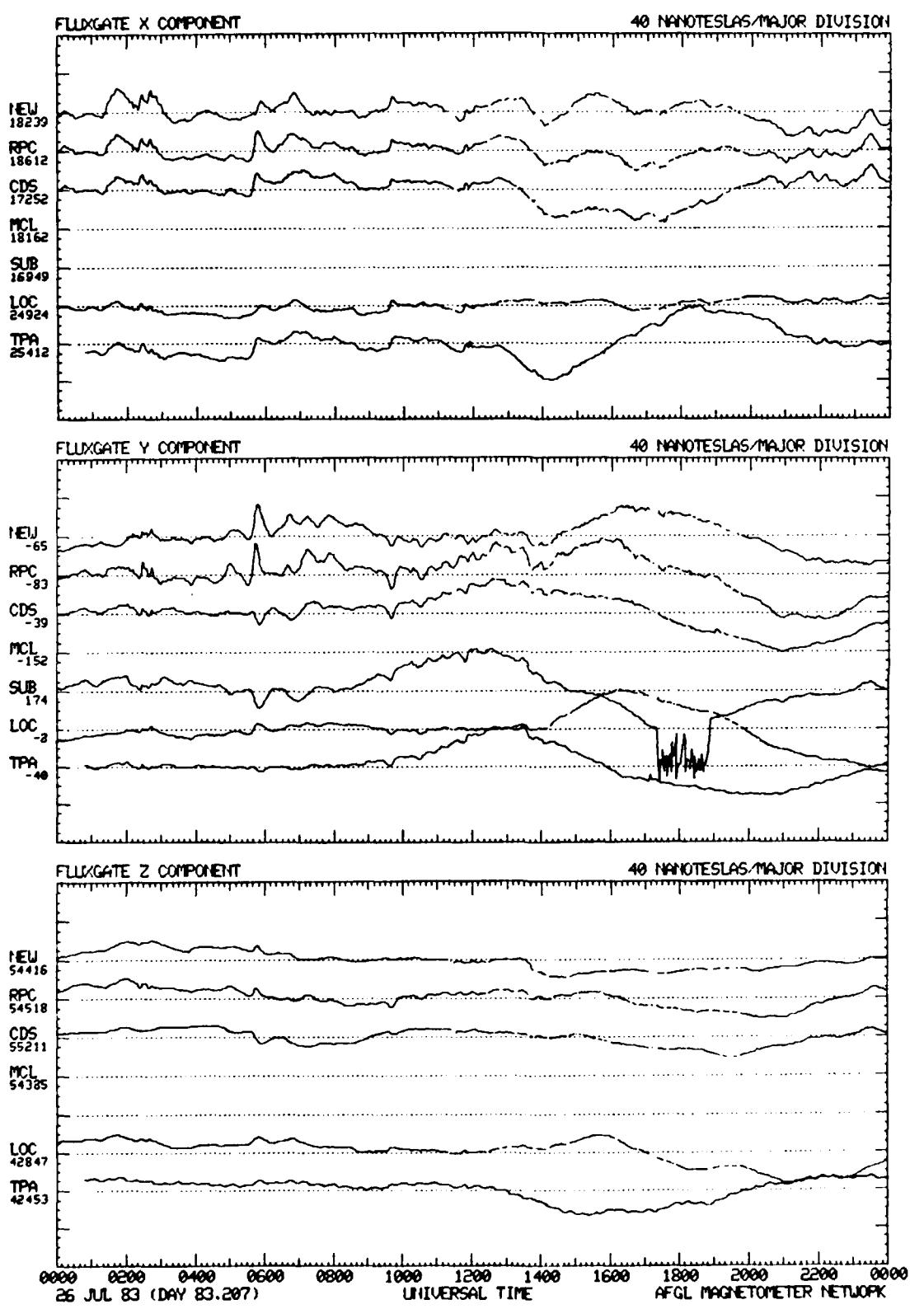








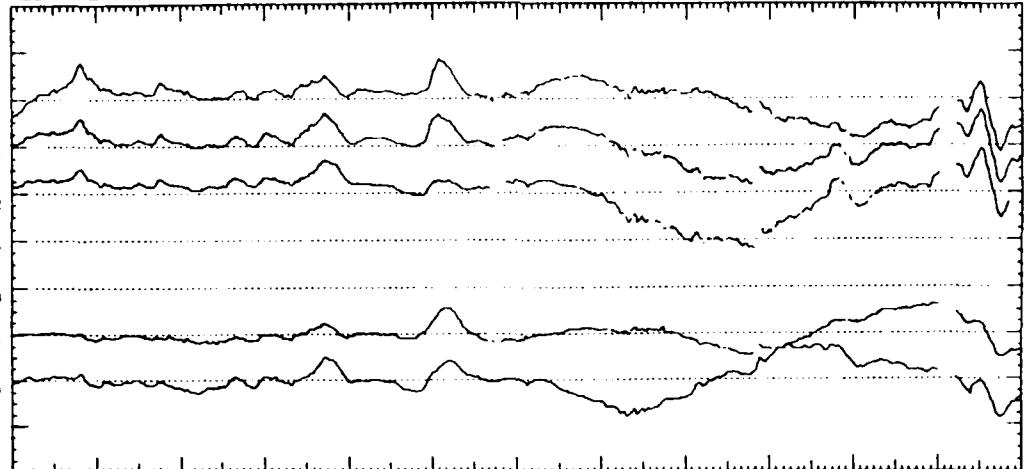




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

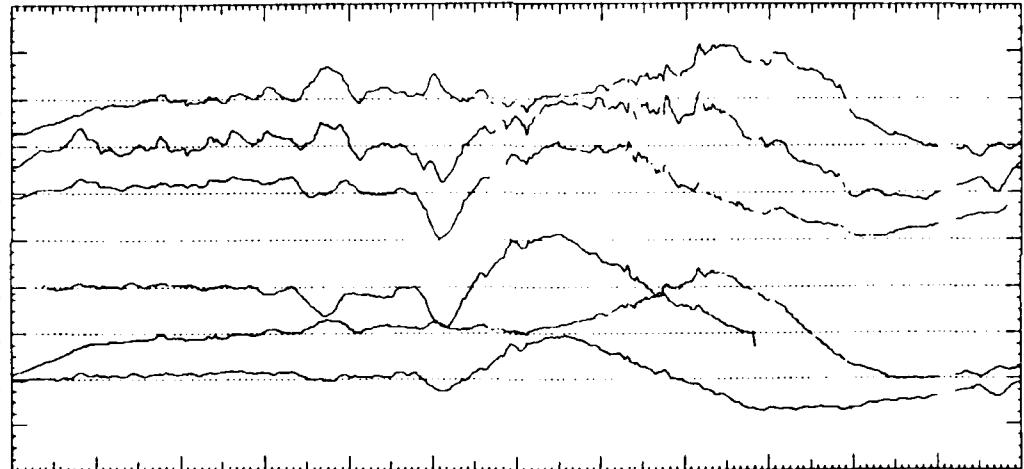
NEW
18242
RPC
12614
CDS
17252
MCL
18162
SUB
16949
LOC
24932
TPA
25414



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

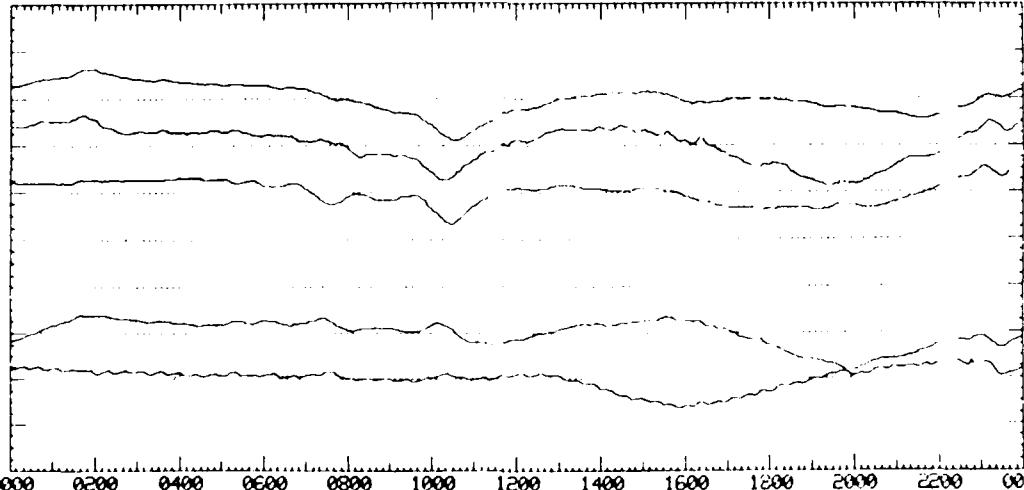
NEW
-63
PPC
-88
CDS
-47
MCL
-152
SUB
179
LOC
-9
TPA
-44



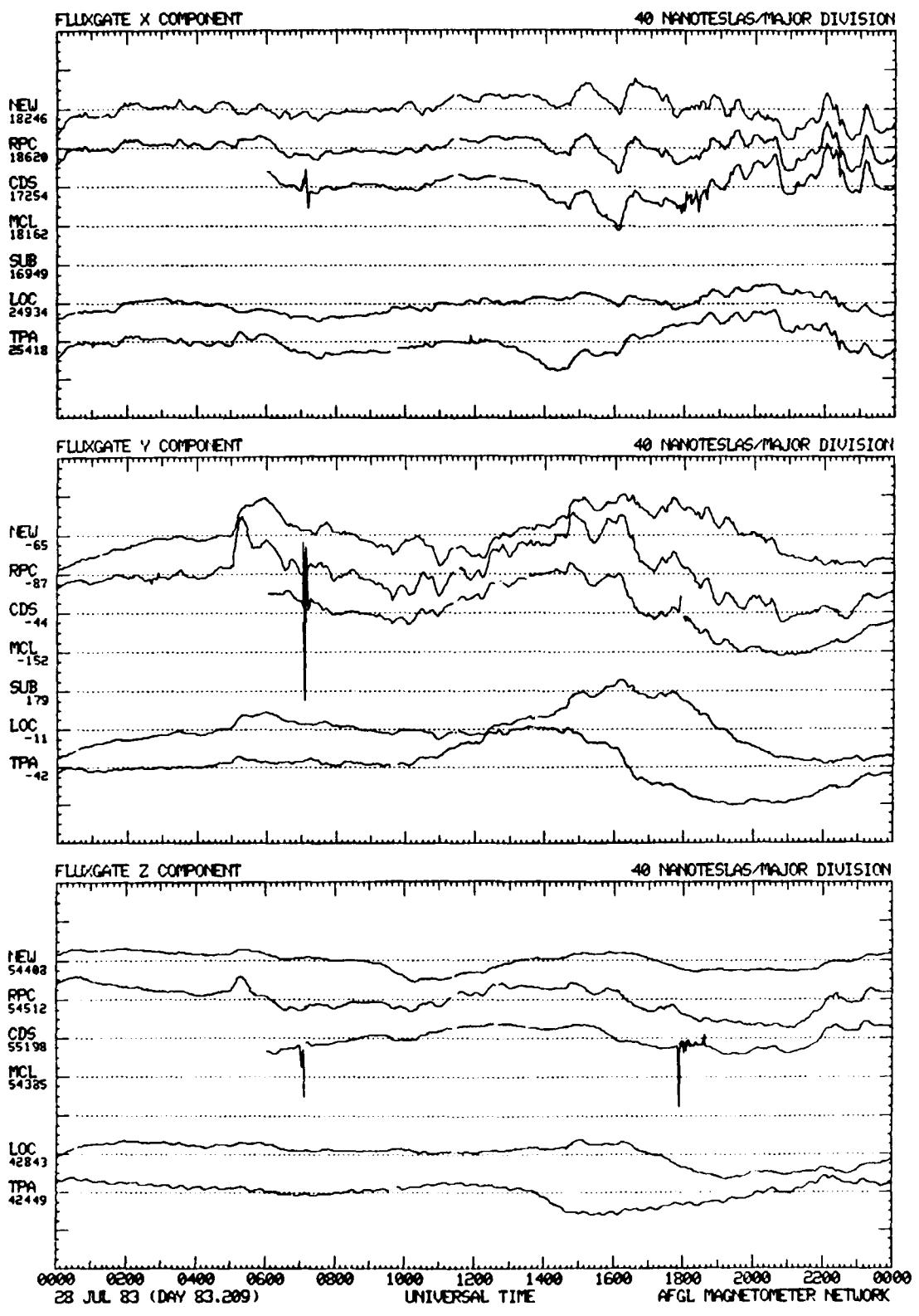
FLUXGATE Z COMPONENT

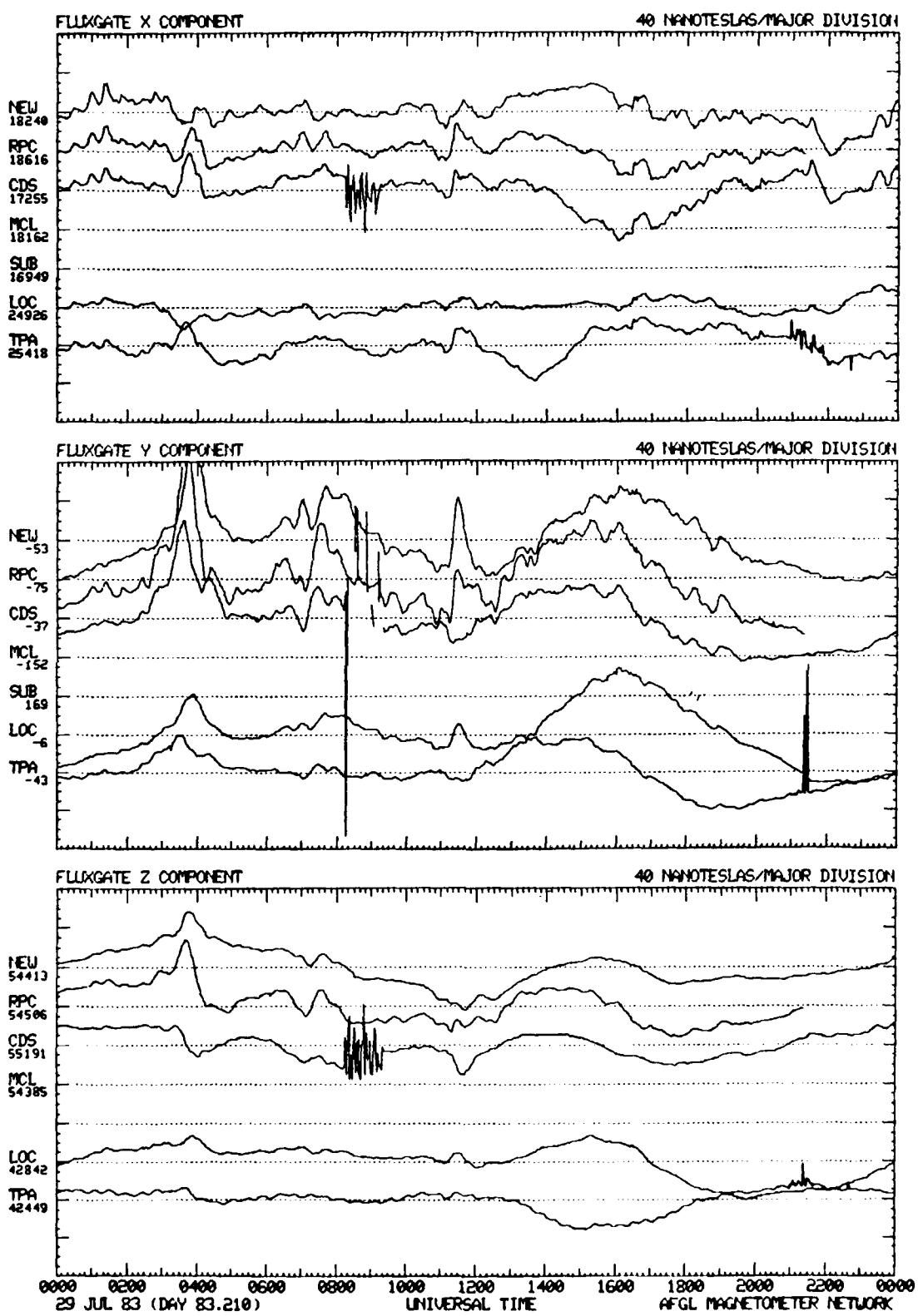
40 NANOTESLAS/MAJOR DIVISION

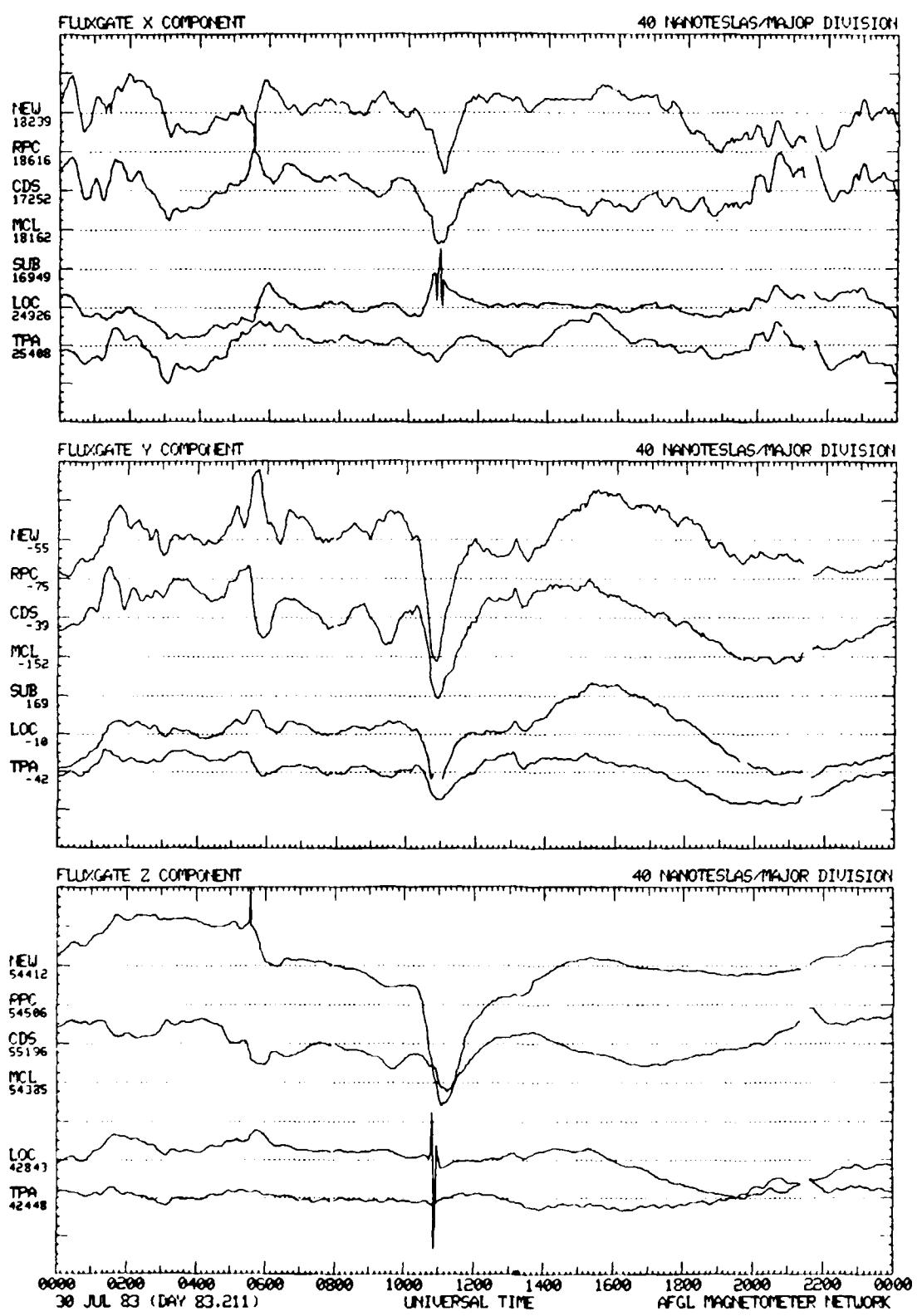
NEW
54465
PPC
54588
CDS
55203
MCL
54385
LOC
4284
TPA
42452

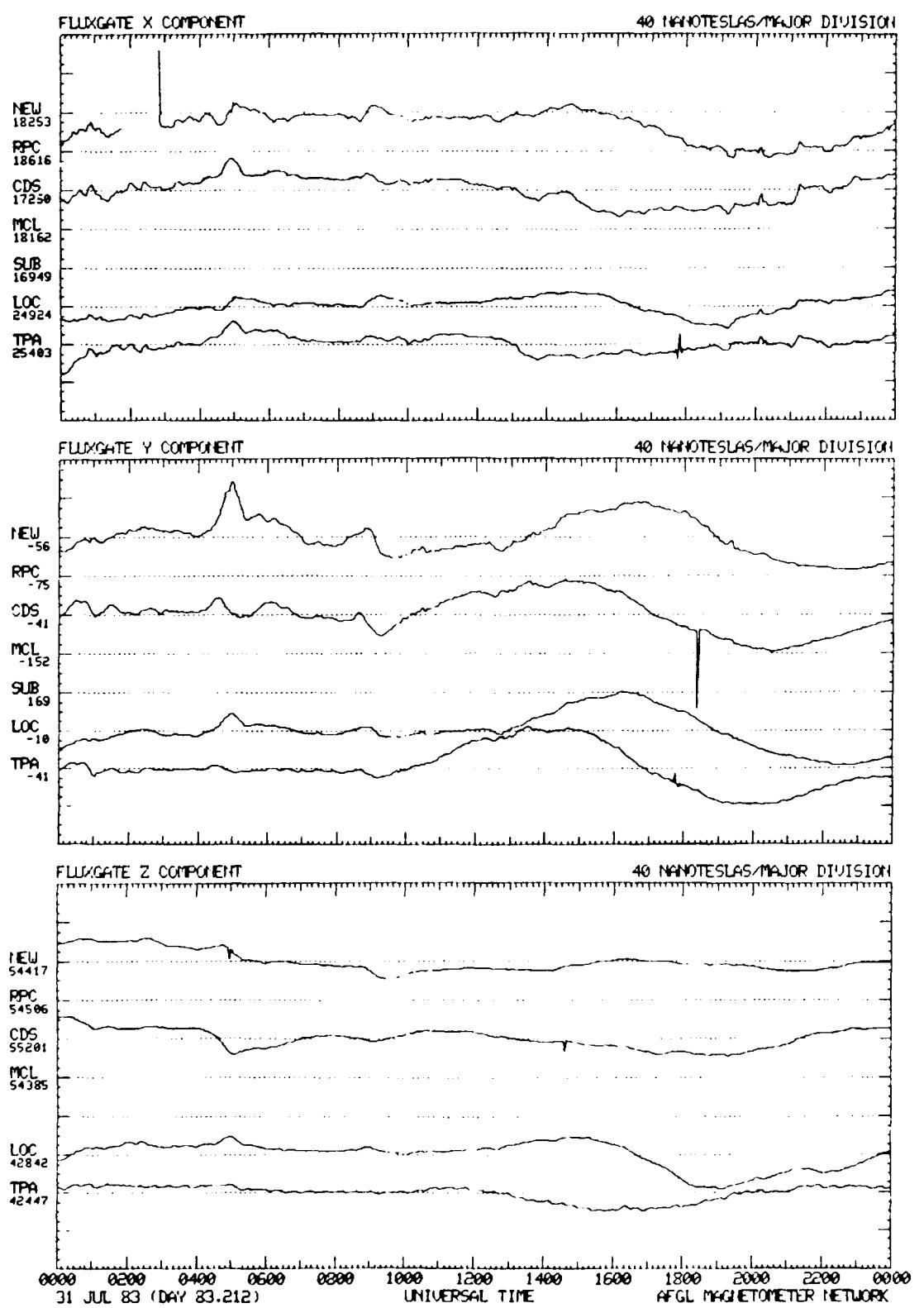


0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 JUL 83 (DAY 83.208) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18251CDS
17262LOC
24936TPA
25415

FLUXGATE Y COMPONENT

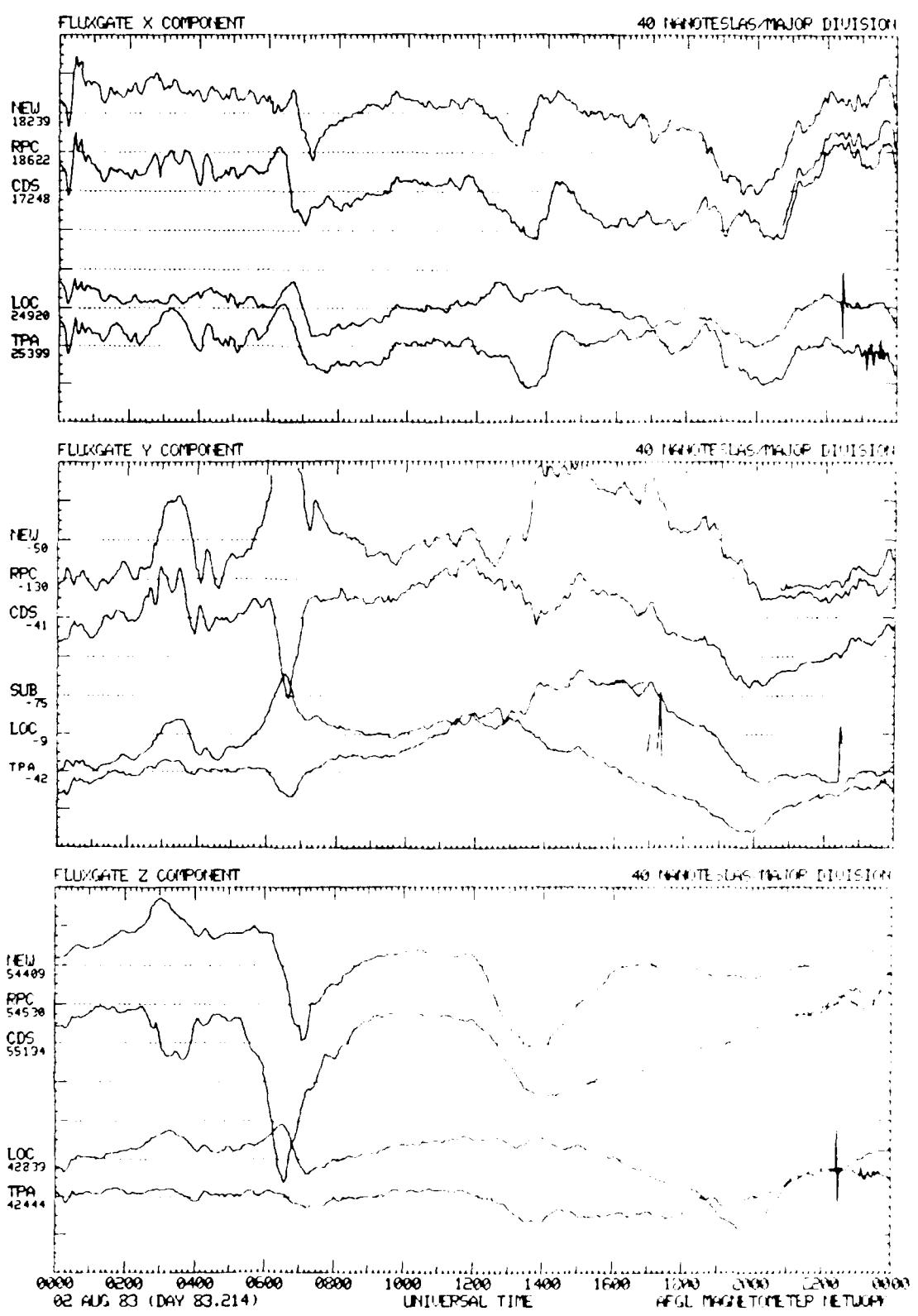
40 NANOTESLAS/MAJOR DIVISION

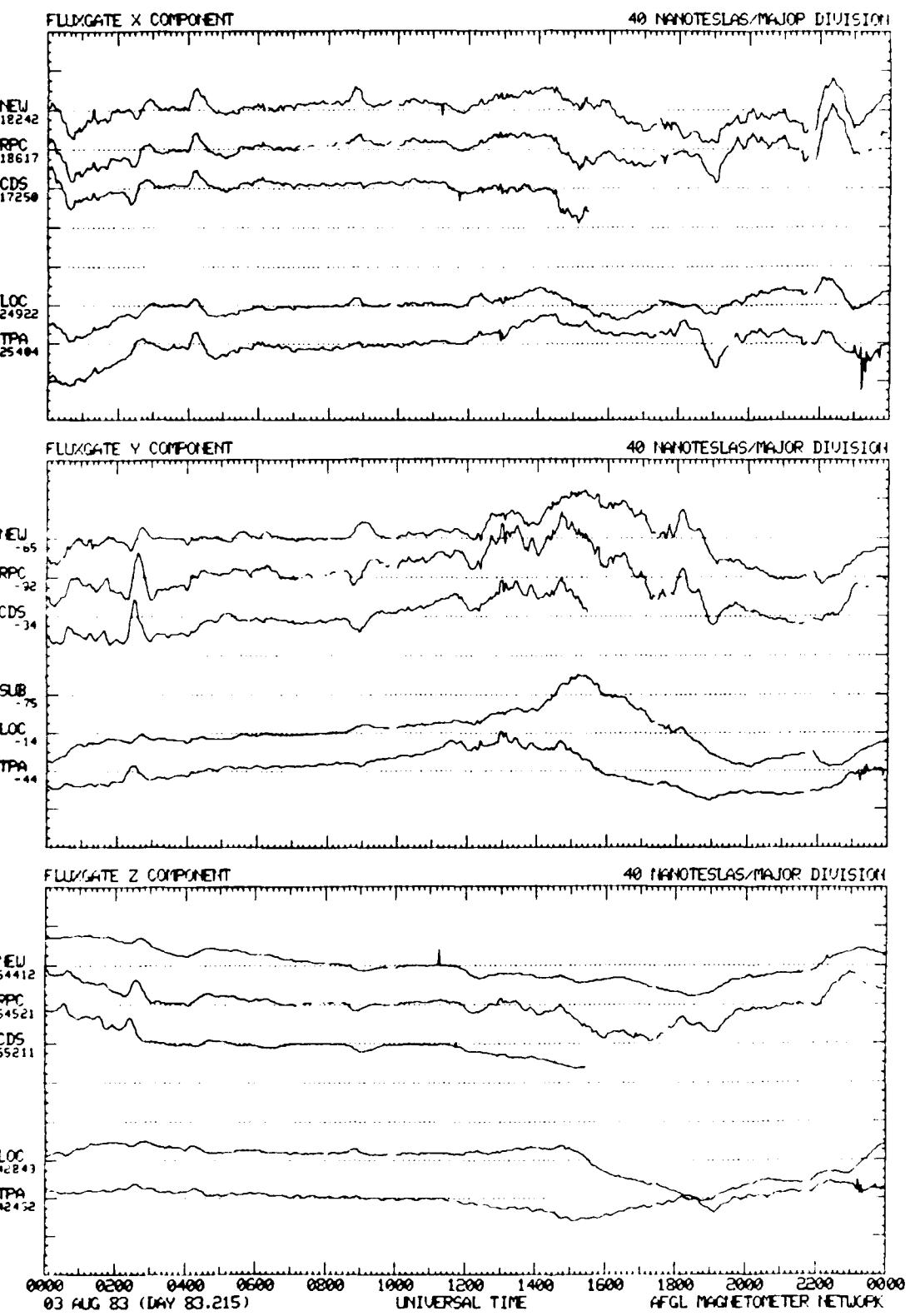
NEW
-62CDS
-45LOC
-14TPA
-45

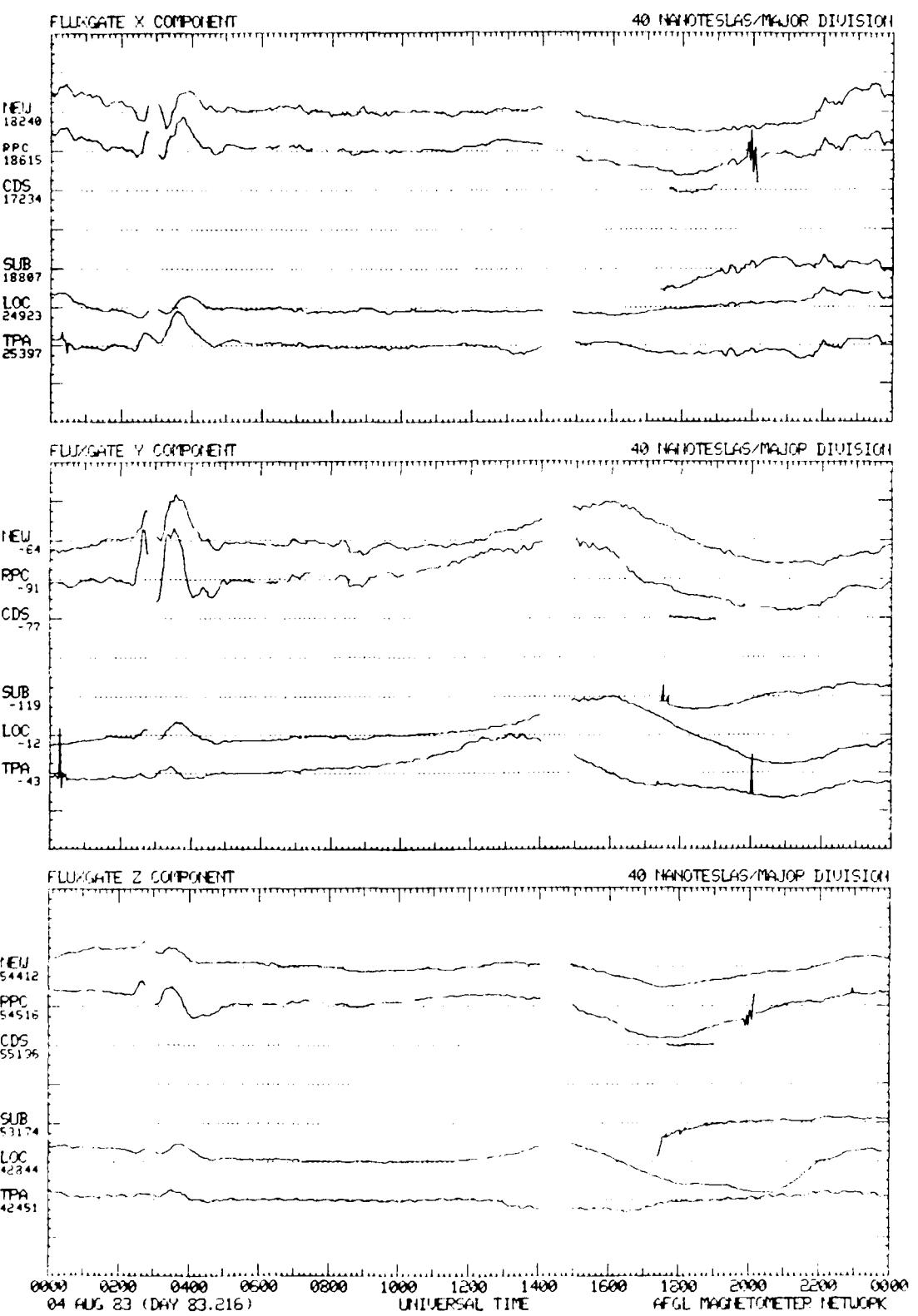
FLUXGATE Z COMPONENT

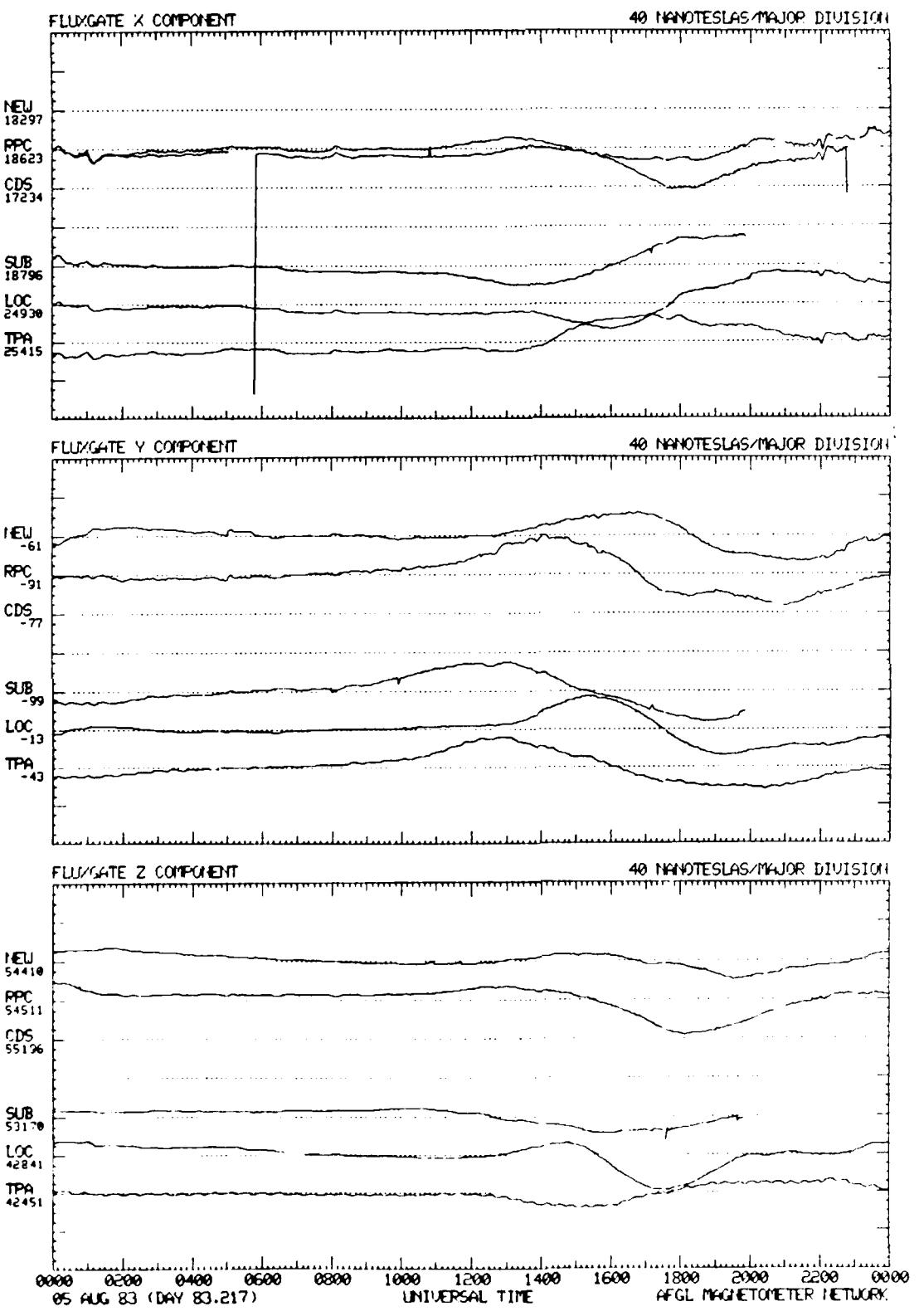
40 NANOTESLAS/MAJOR DIVISION

NEW
54411CDS
55206LOC
42842TPA
424450000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
01 AUG 83 (DAY 83.213) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18288
RPC
18631
CDS
17234

SUB
18796
LOC
24947
TPA
25419

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-64
RPC
-95
CDS
-77

SUB
-99
LOC
-15
TPA
-44

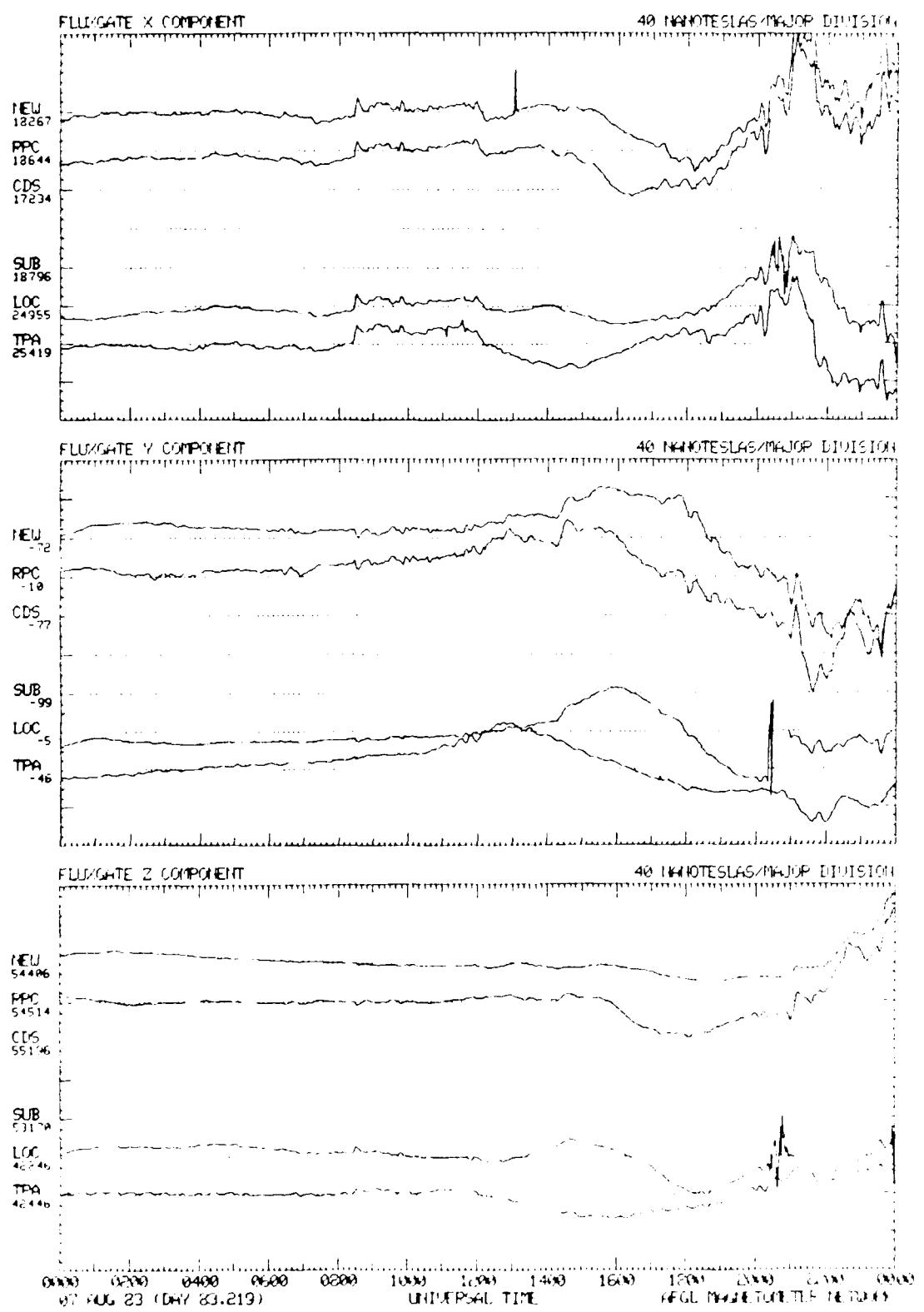
FLUXGATE Z COMPONENT

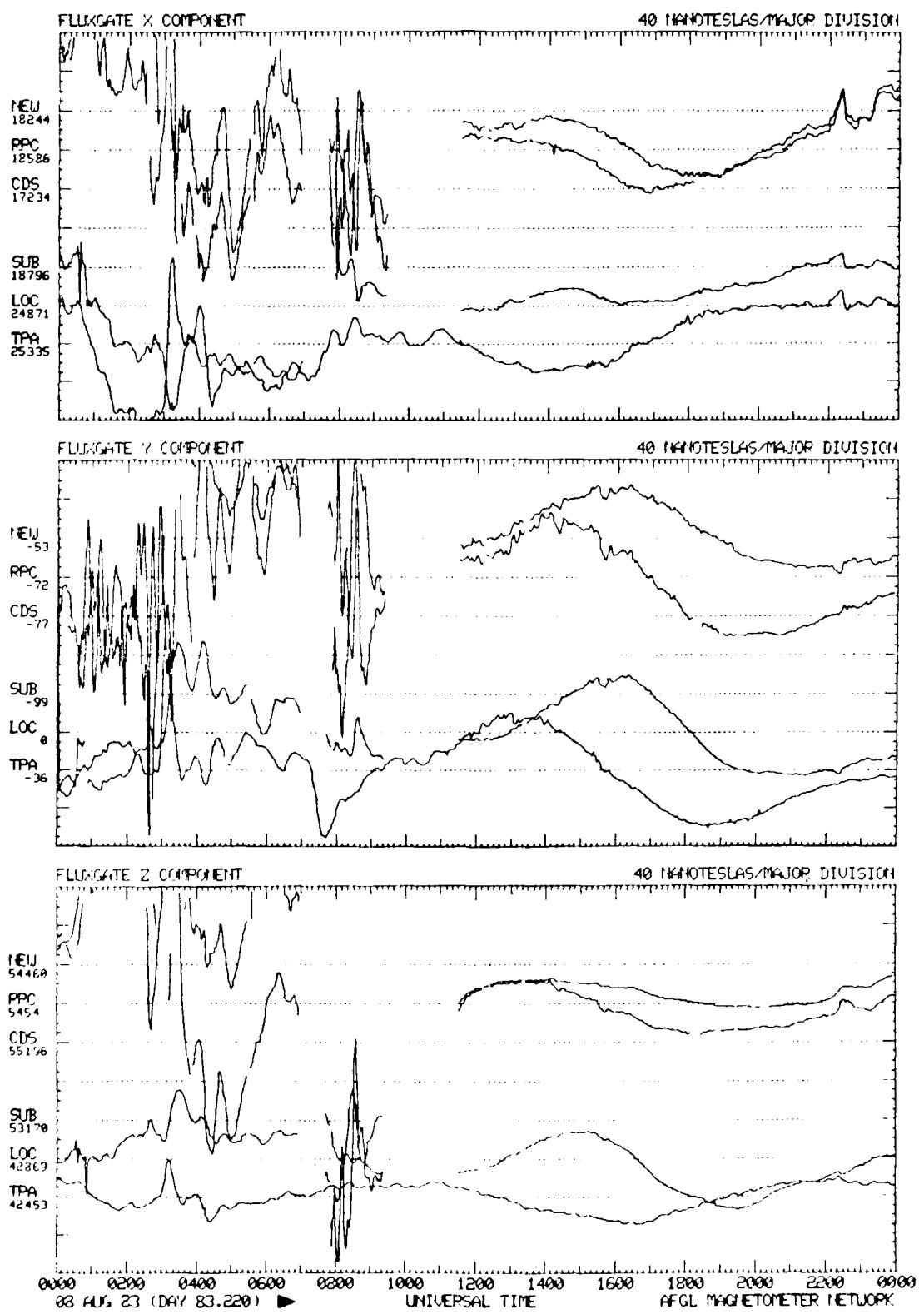
40 NANOTESLAS/MAJOR DIVISION

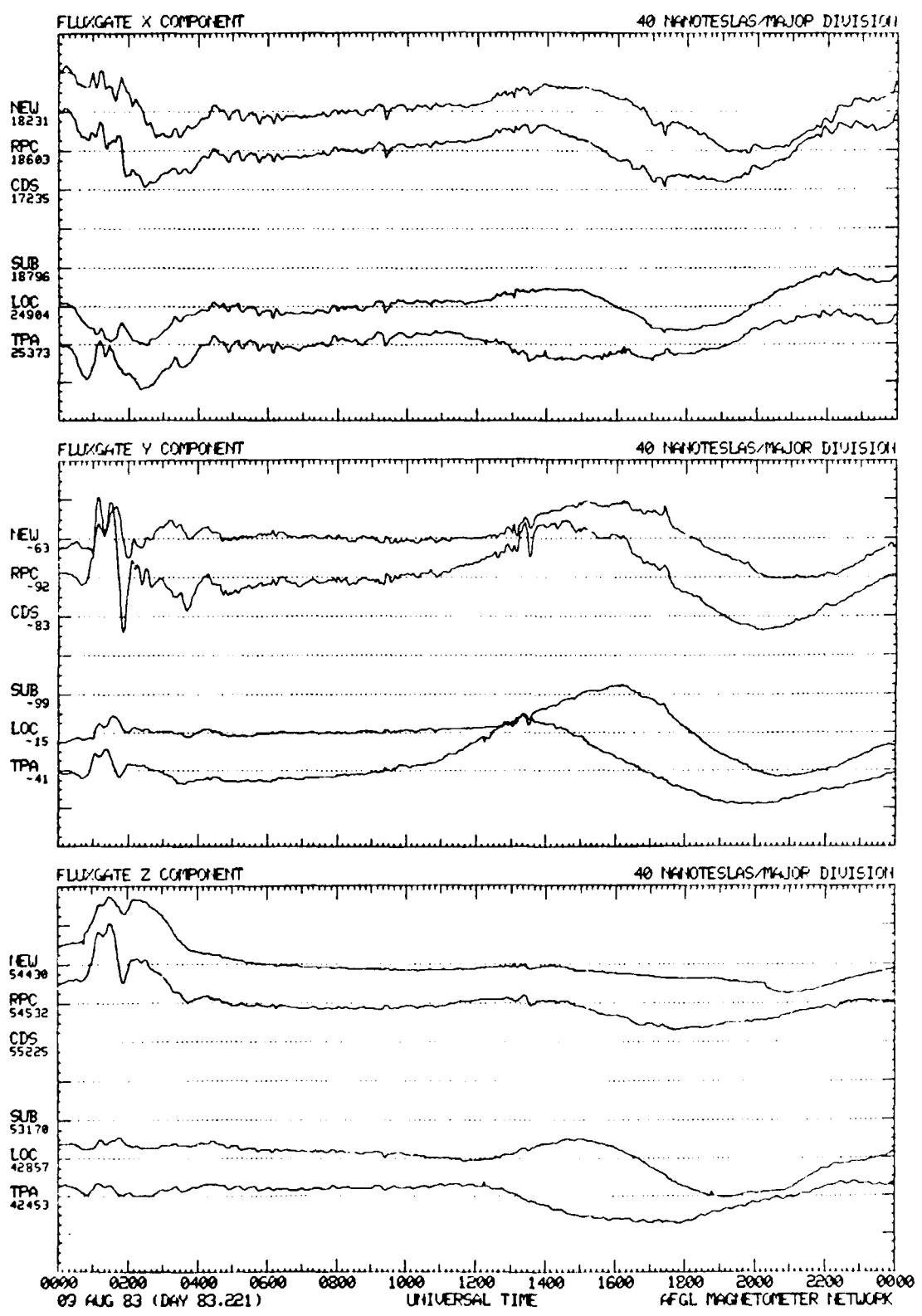
NEU
54405
RPC
54508
CDS
55196

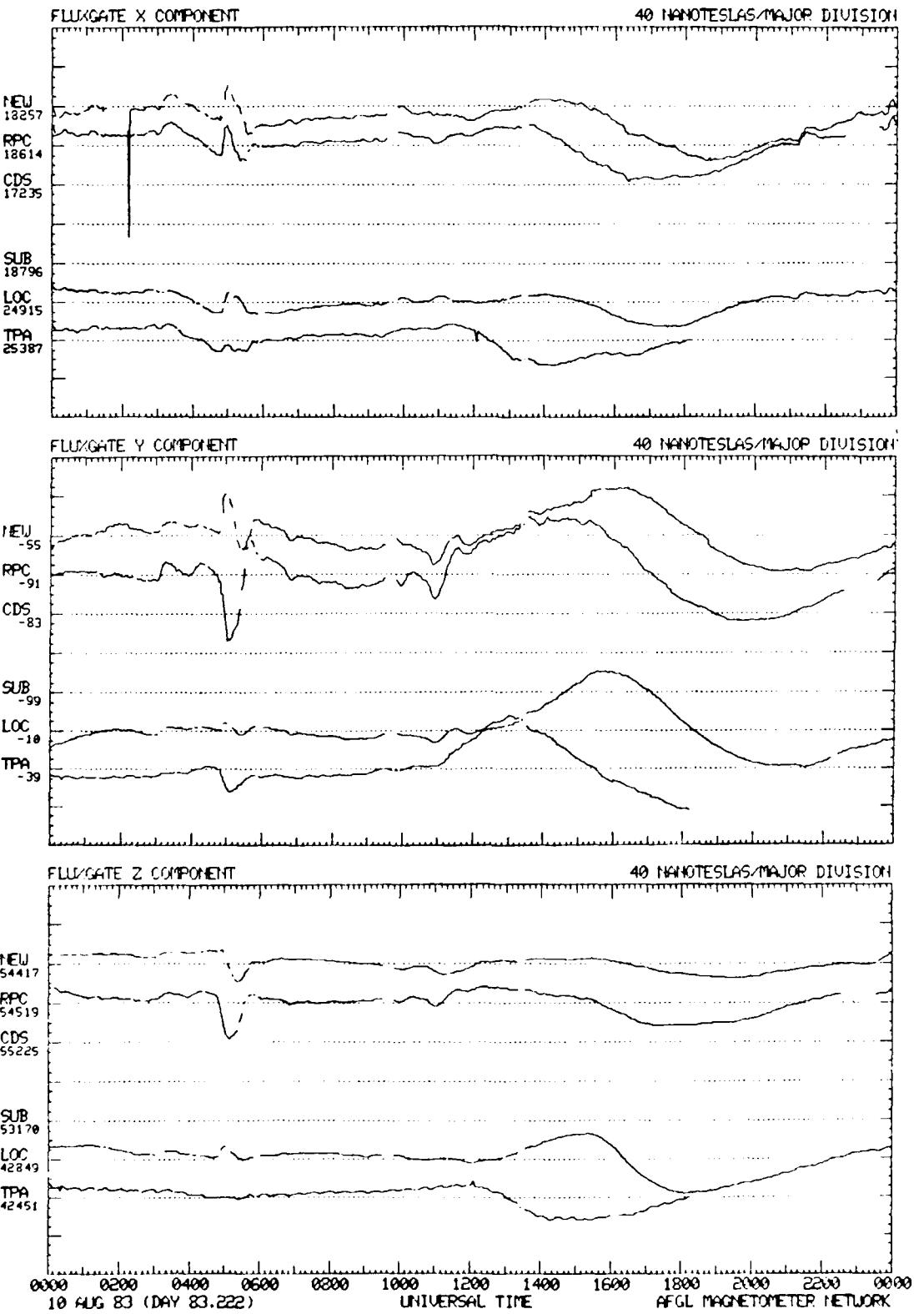
SUB
53170
LOC
43937
TPA
48443

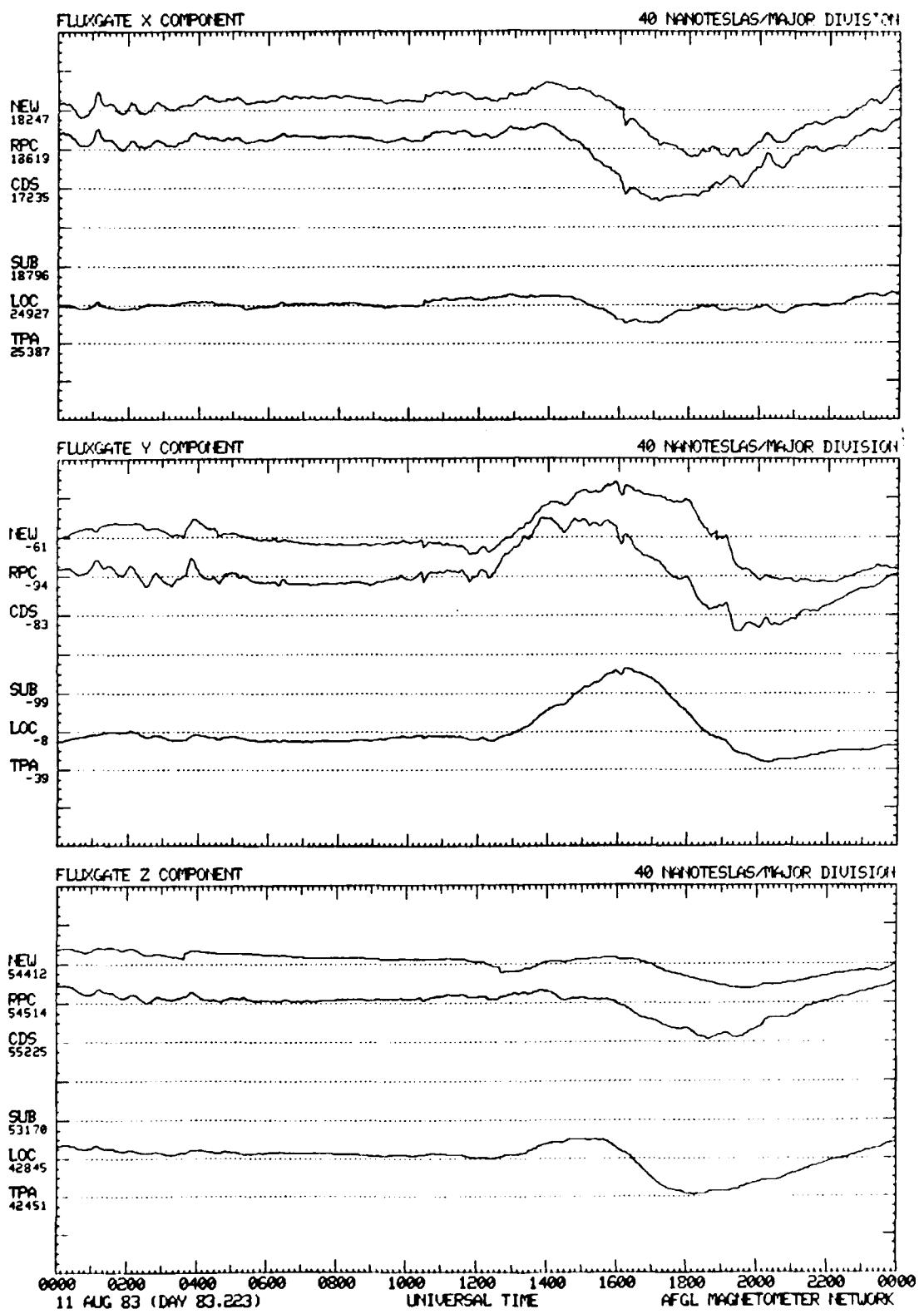
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
06 AUG 23 (DAY 83.218) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

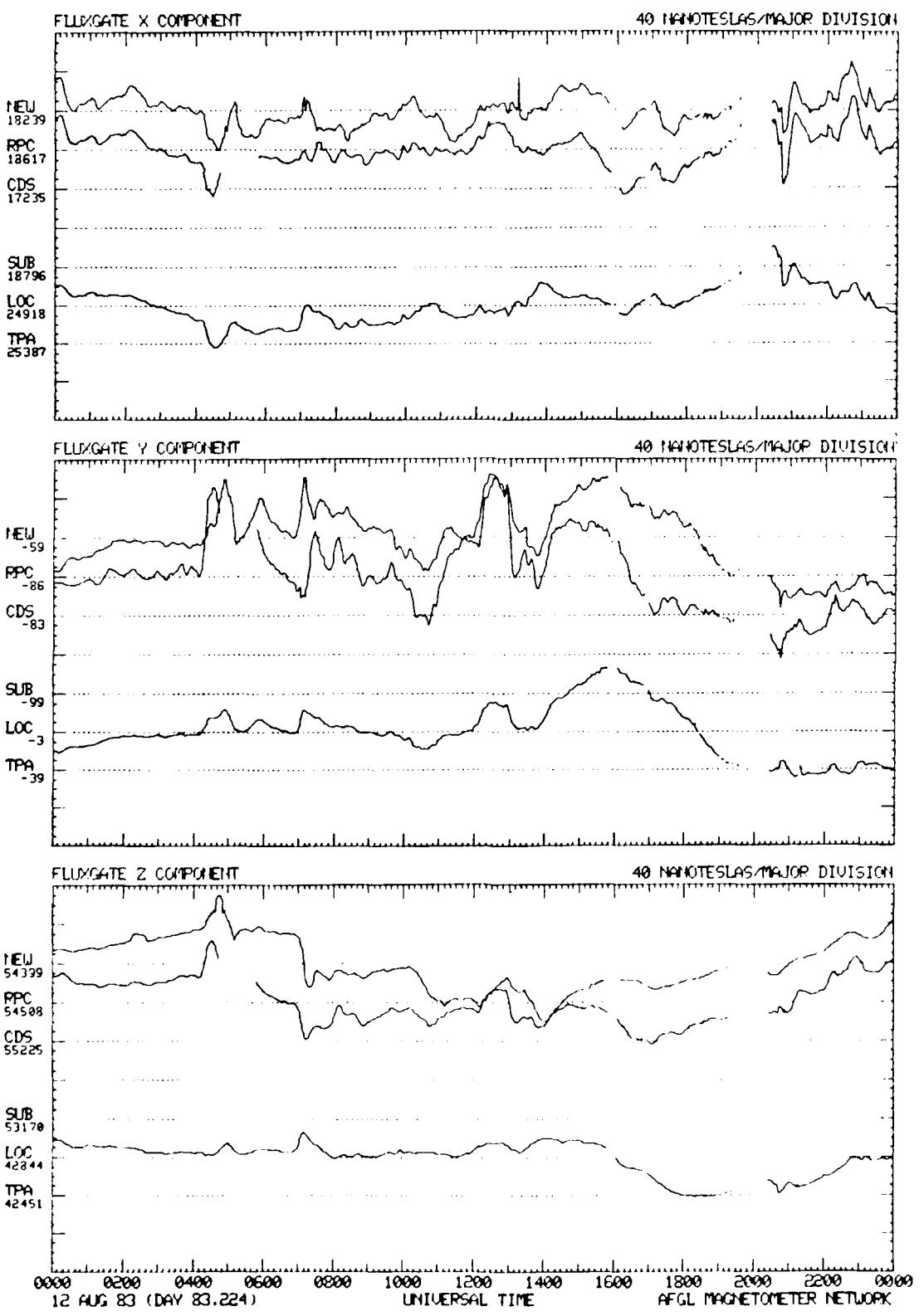


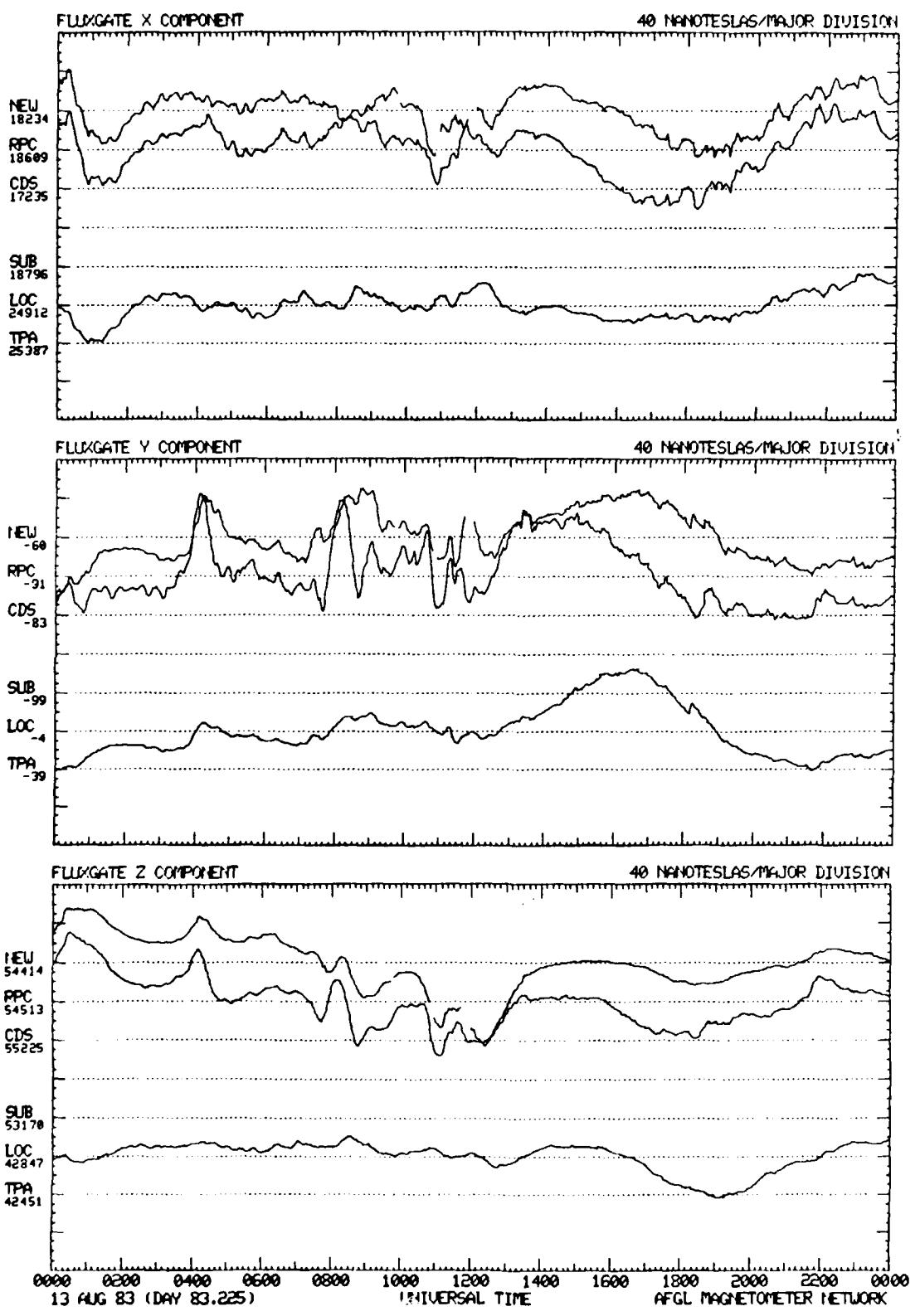


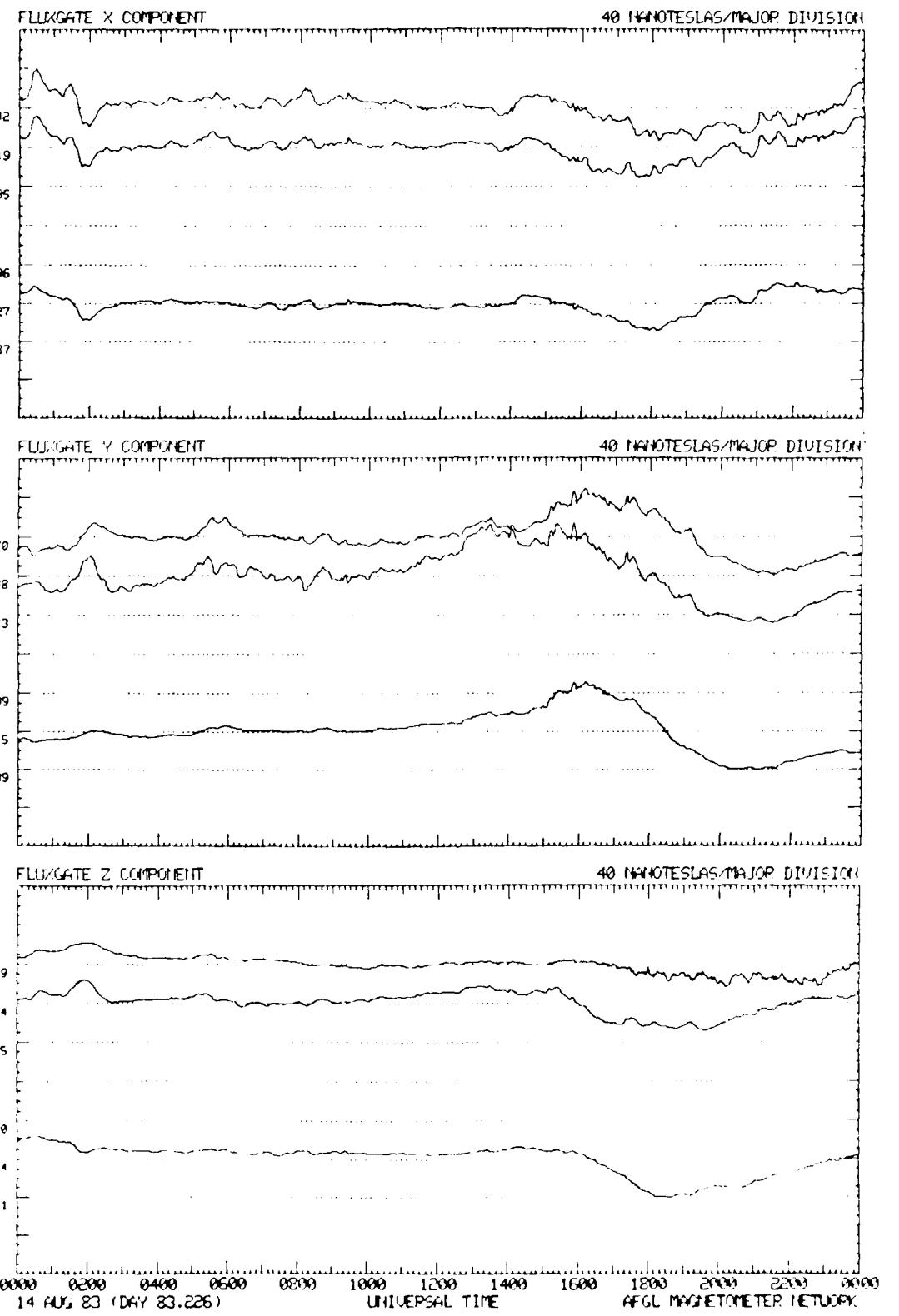


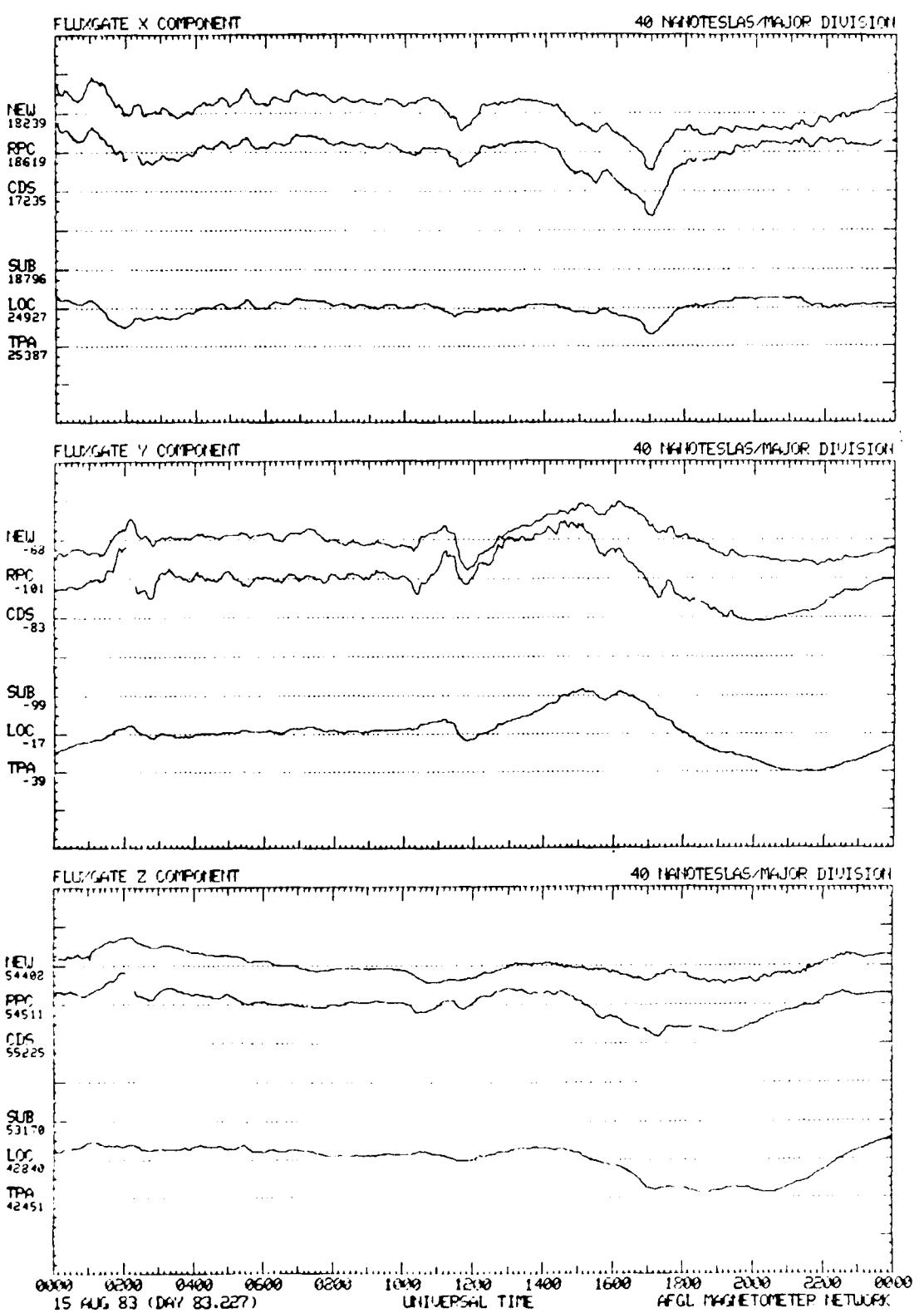






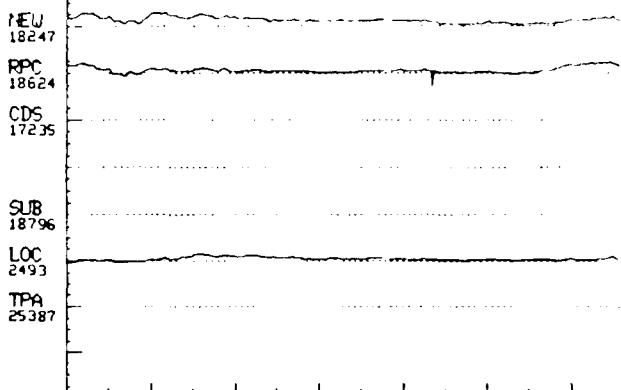






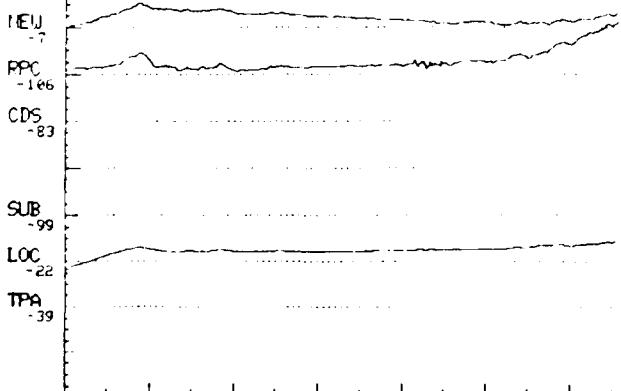
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



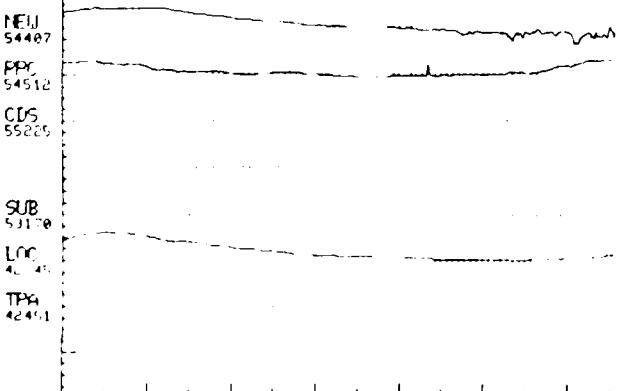
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
16 AUG 83 (DAY 23,228) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18246
RPC
18620
CDS
17235

SUB
18796
LOC
24935
TPA
25387

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-72
RPC
-98
CDS
-83

SUB
-99
LOC
-14
TPA
-39

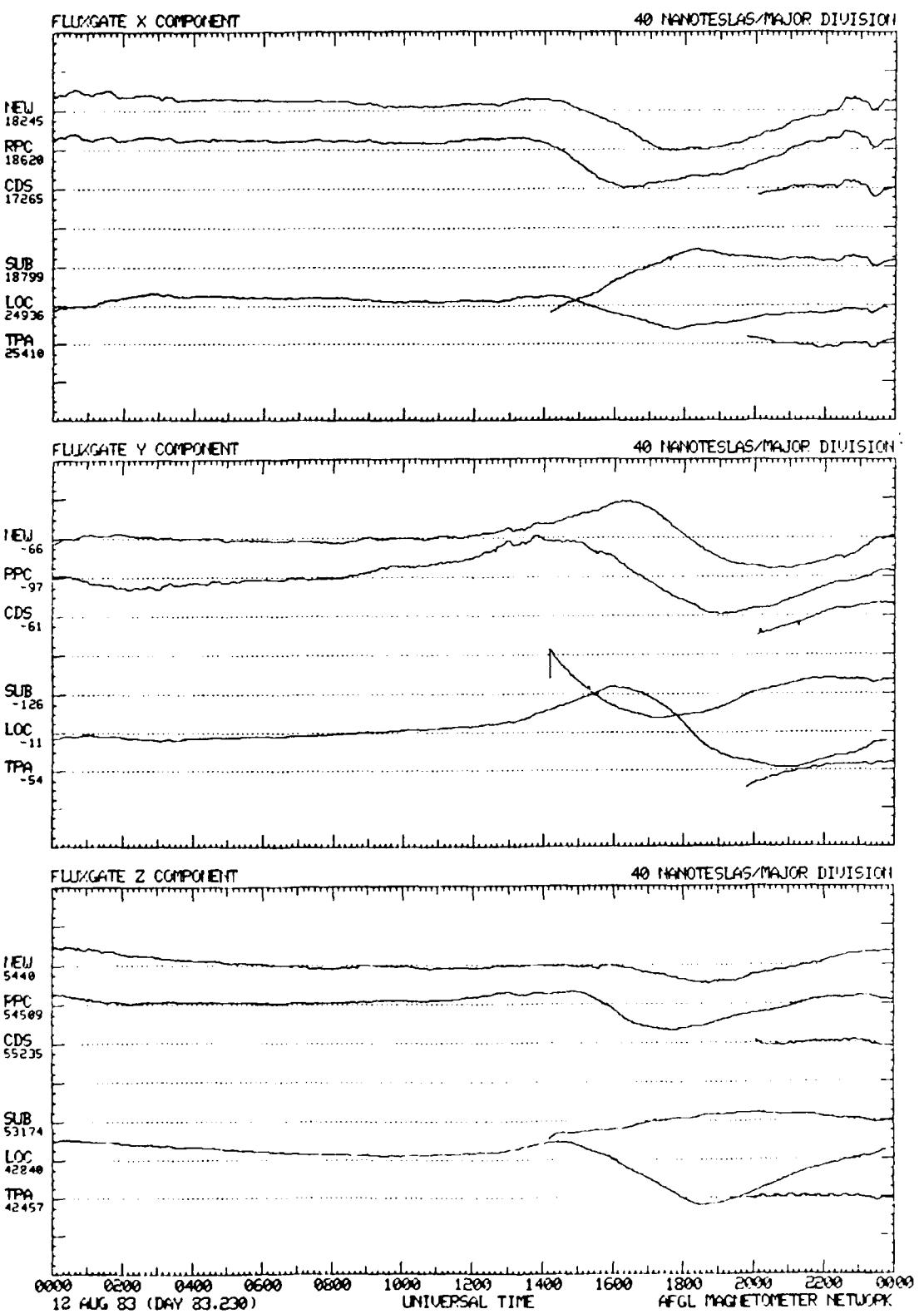
FLUXGATE Z COMPONENT

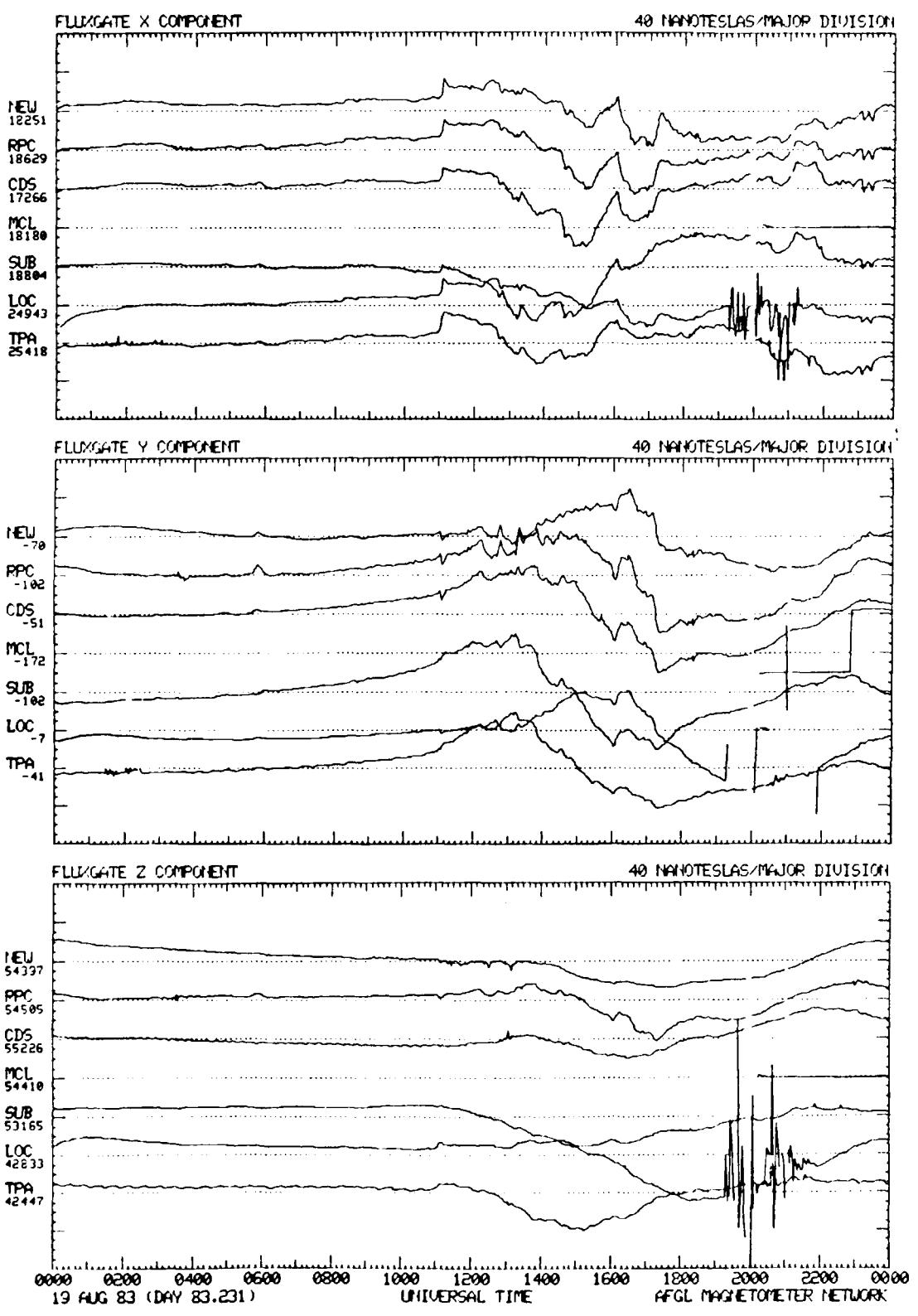
40 NANOTESLAS/MAJOR DIVISION

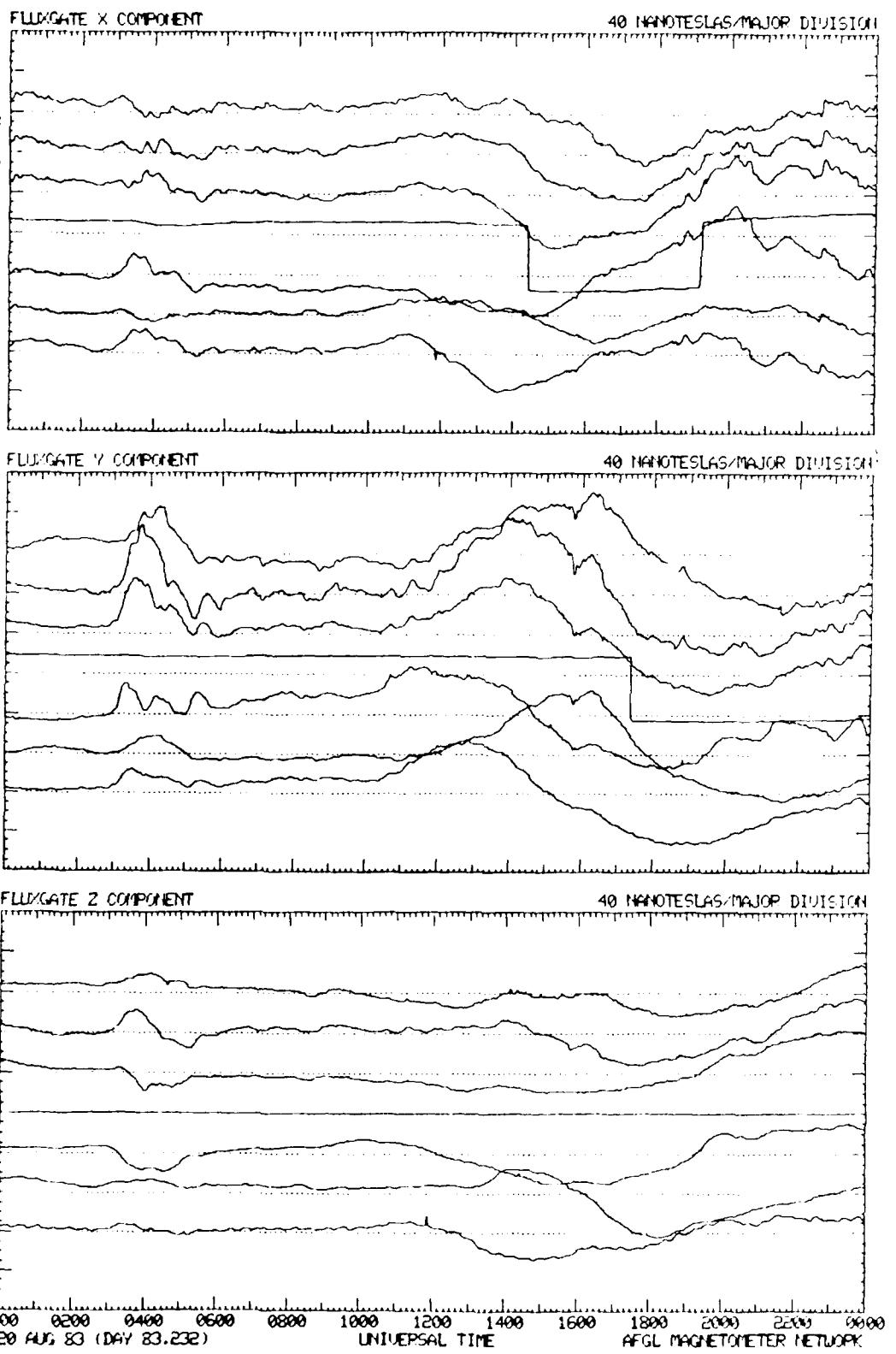
NEU
54411
RPC
54516
CDS
55225

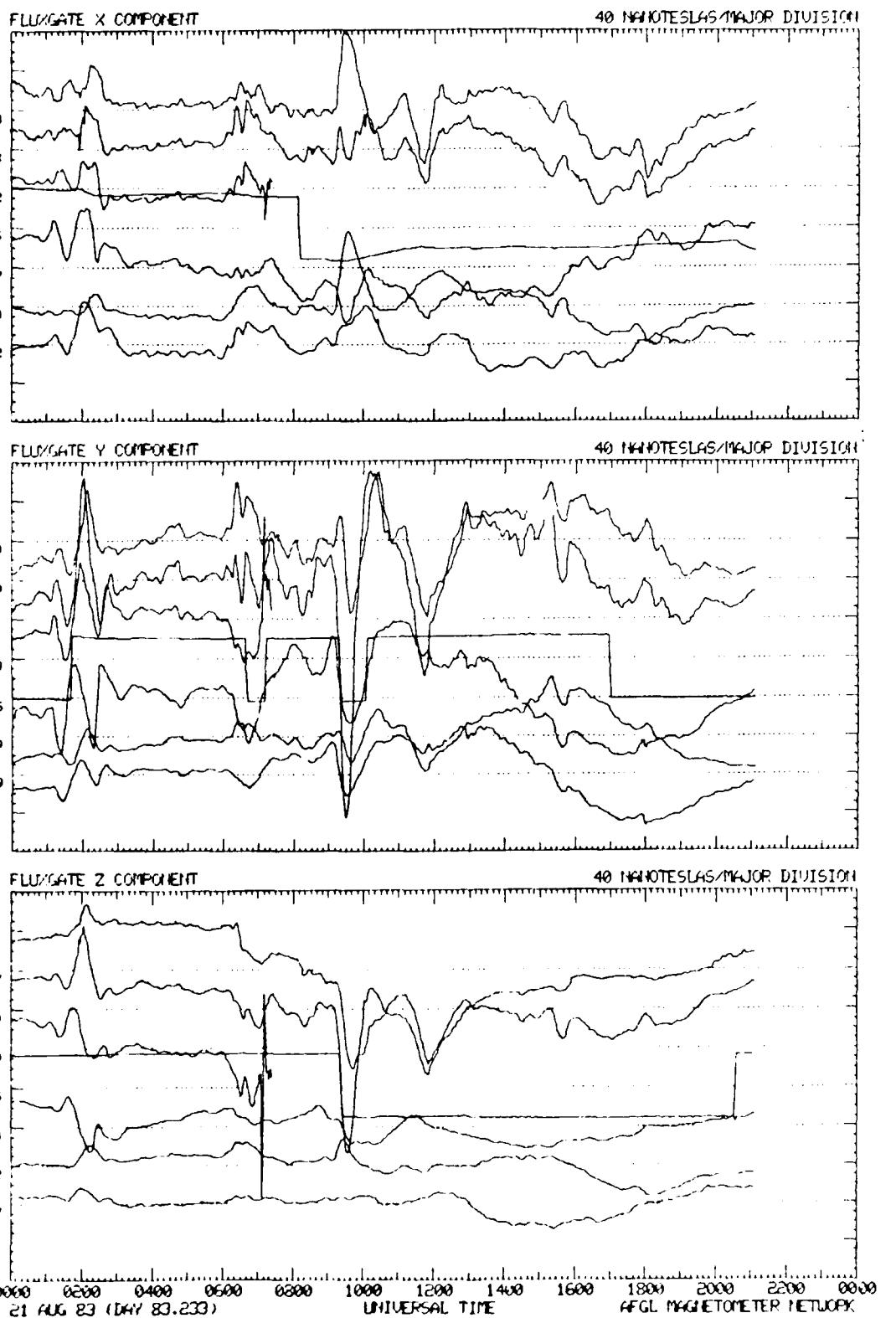
SUB
53170
LOC
42852
TPA
42451

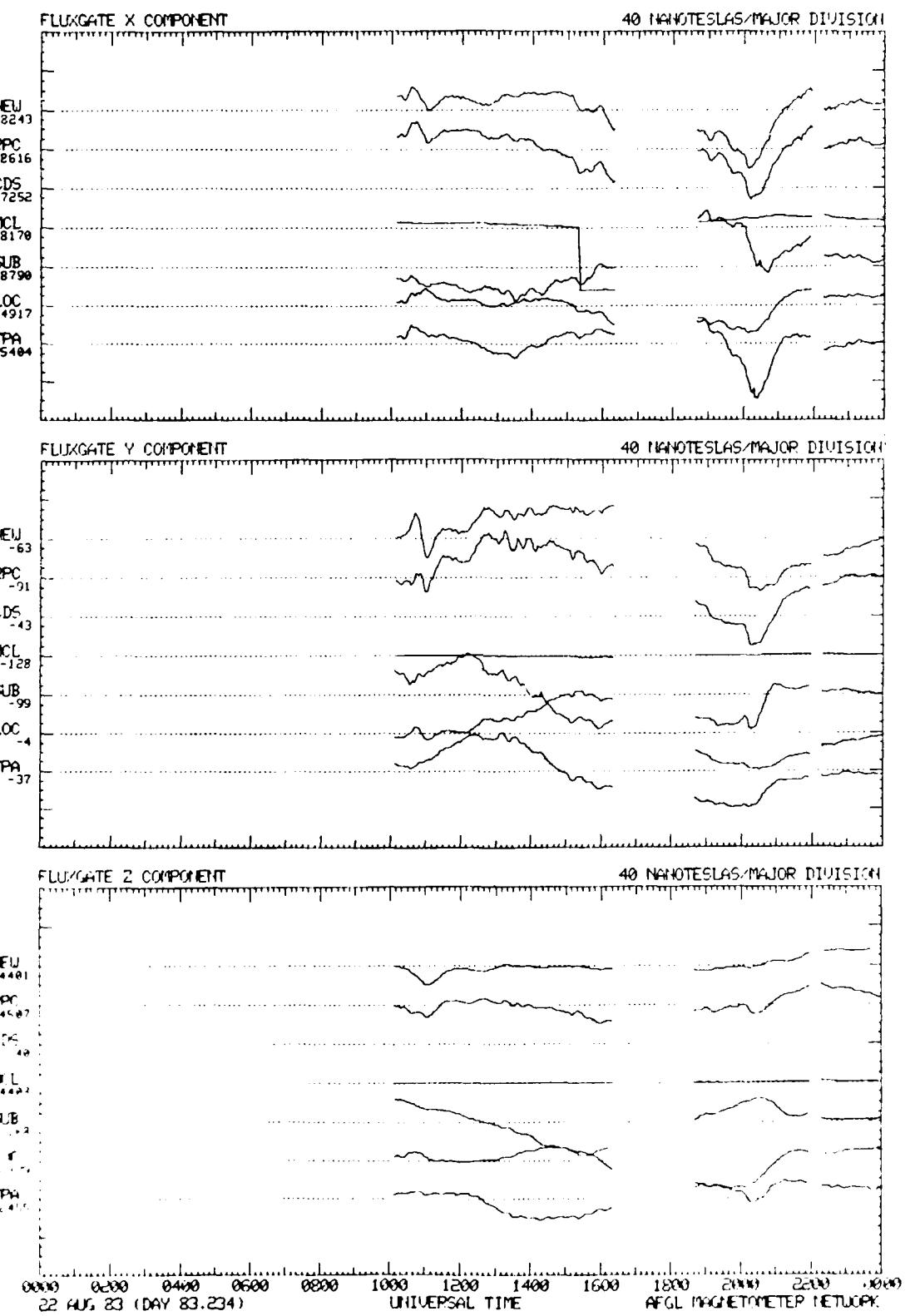
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
17 AUG 83 (DAY 83.229) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

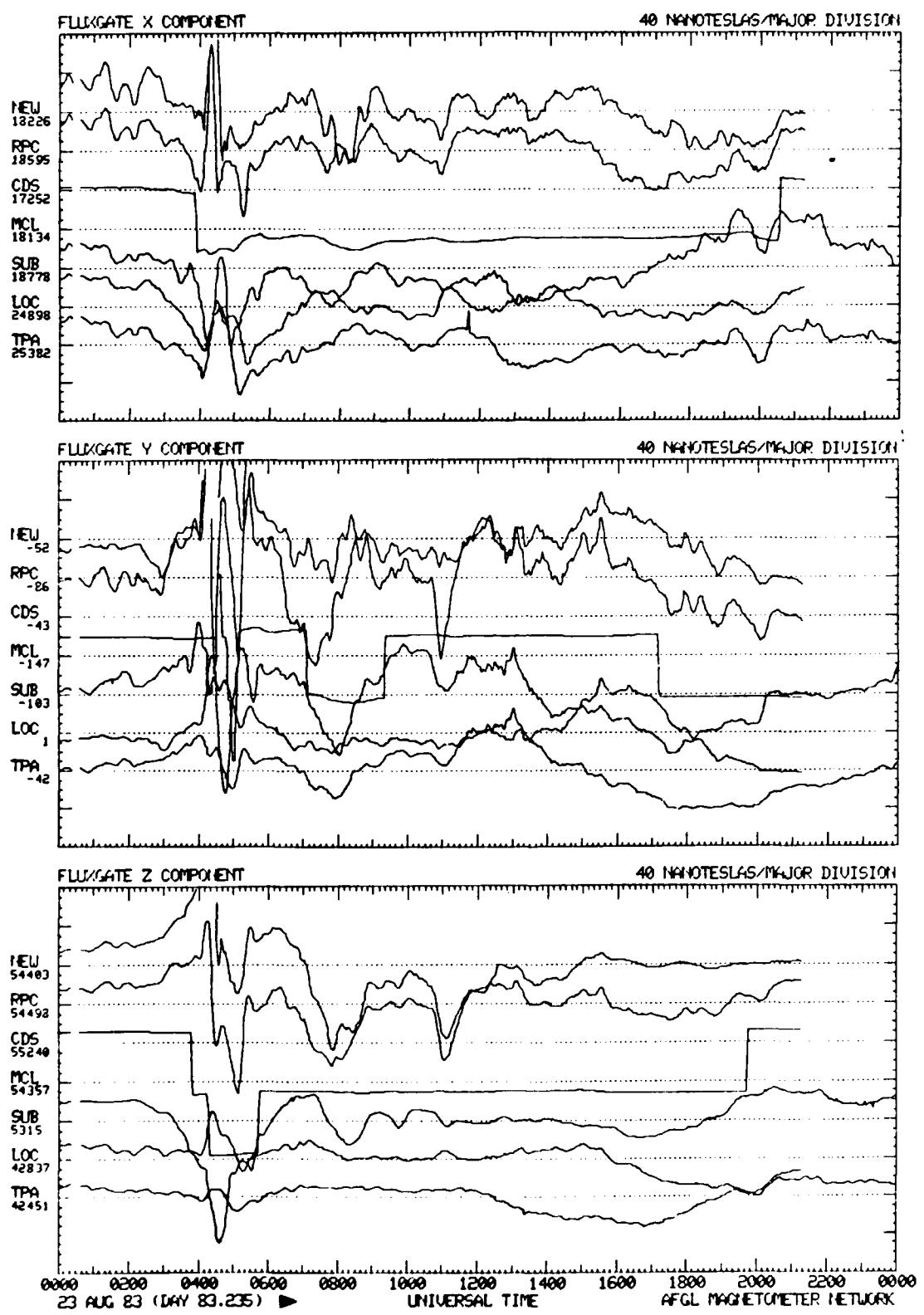


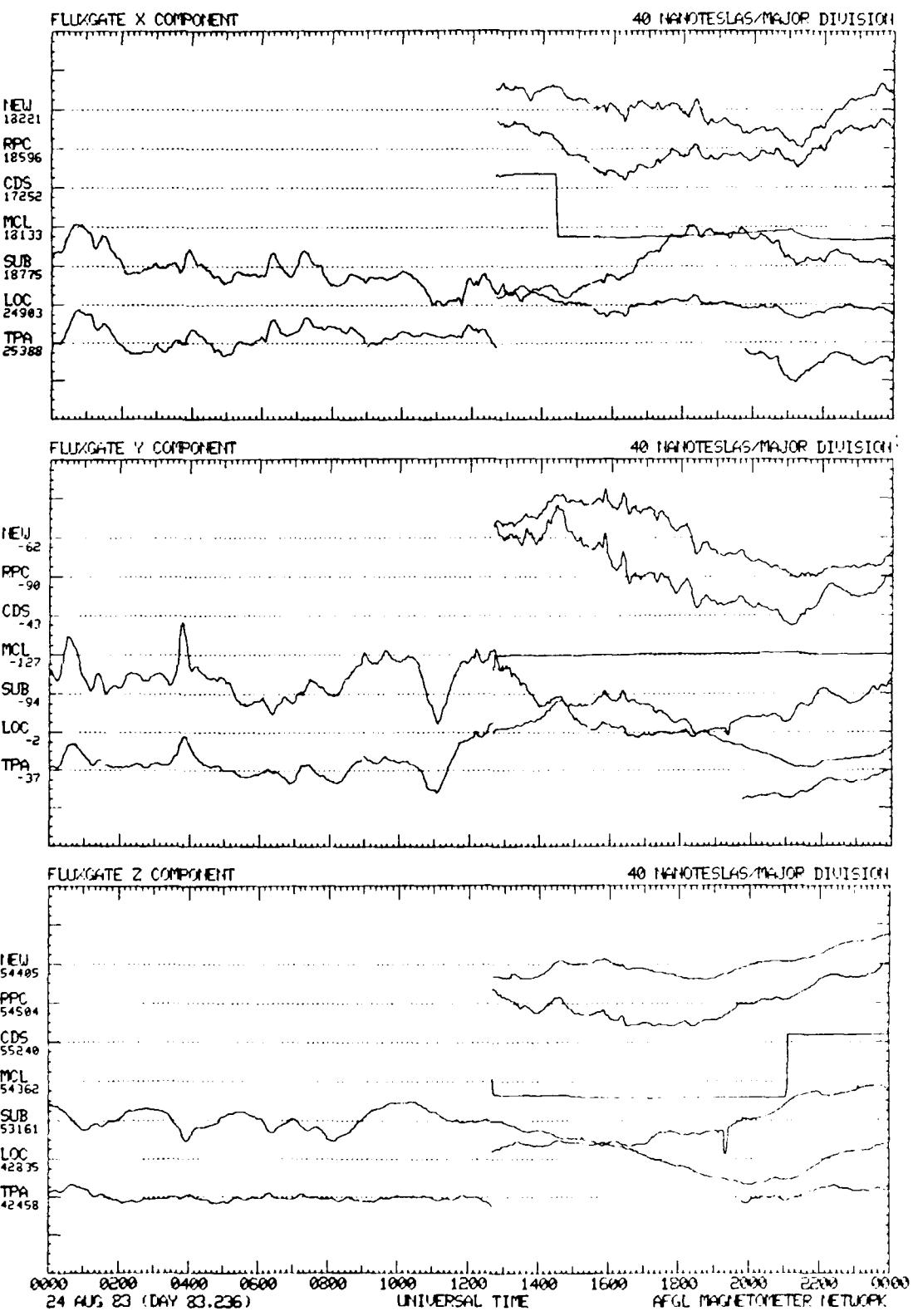


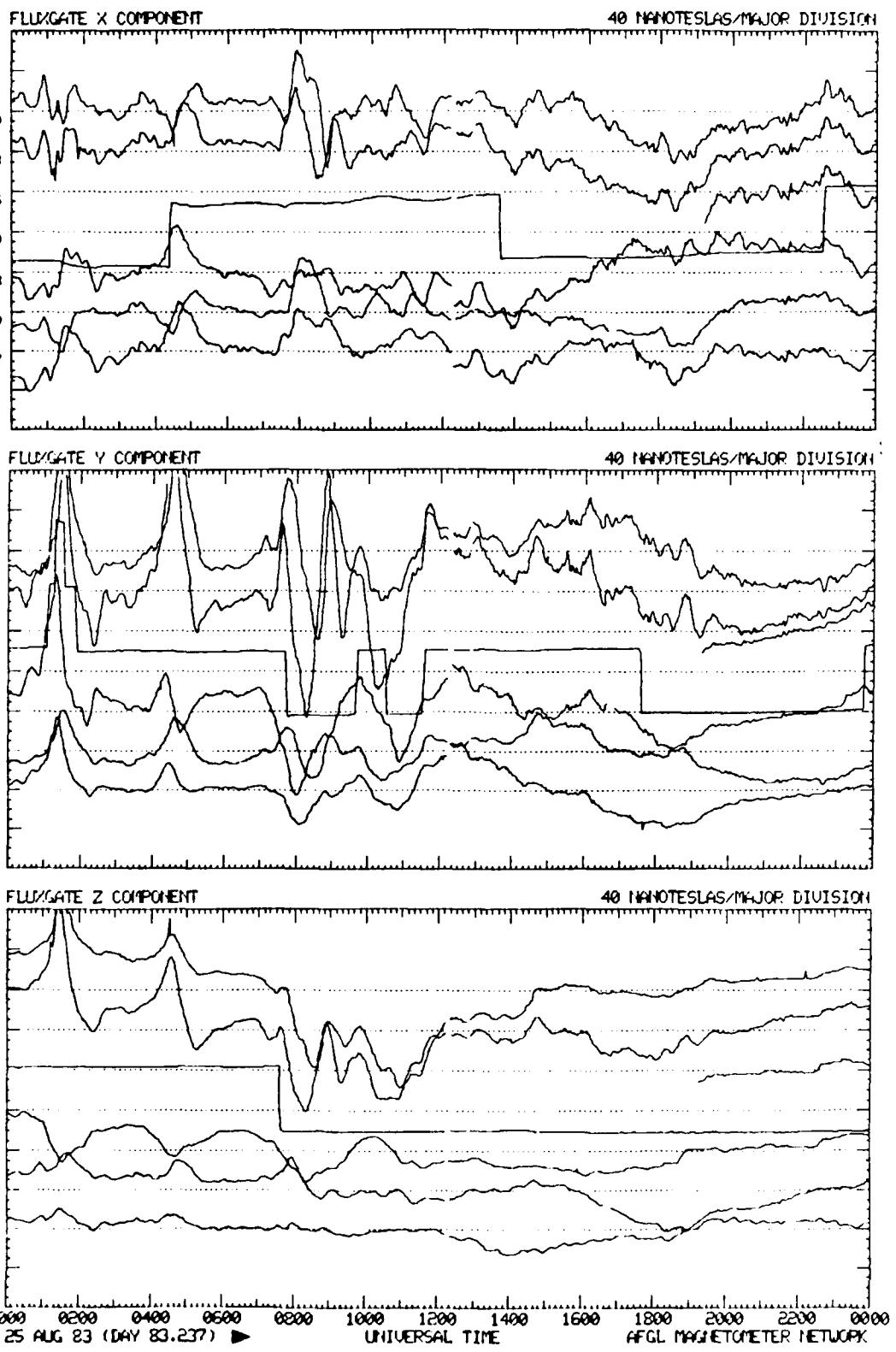


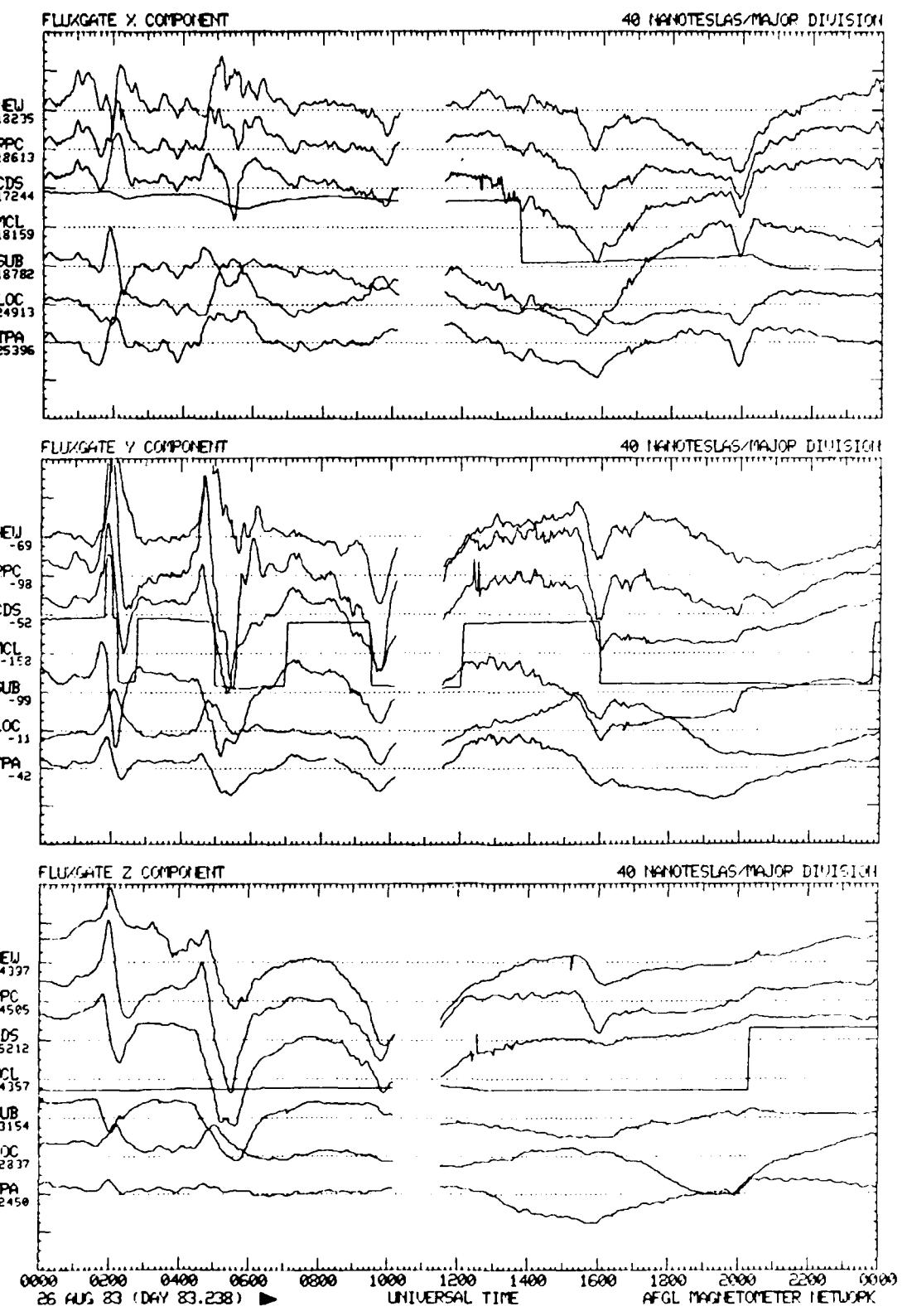


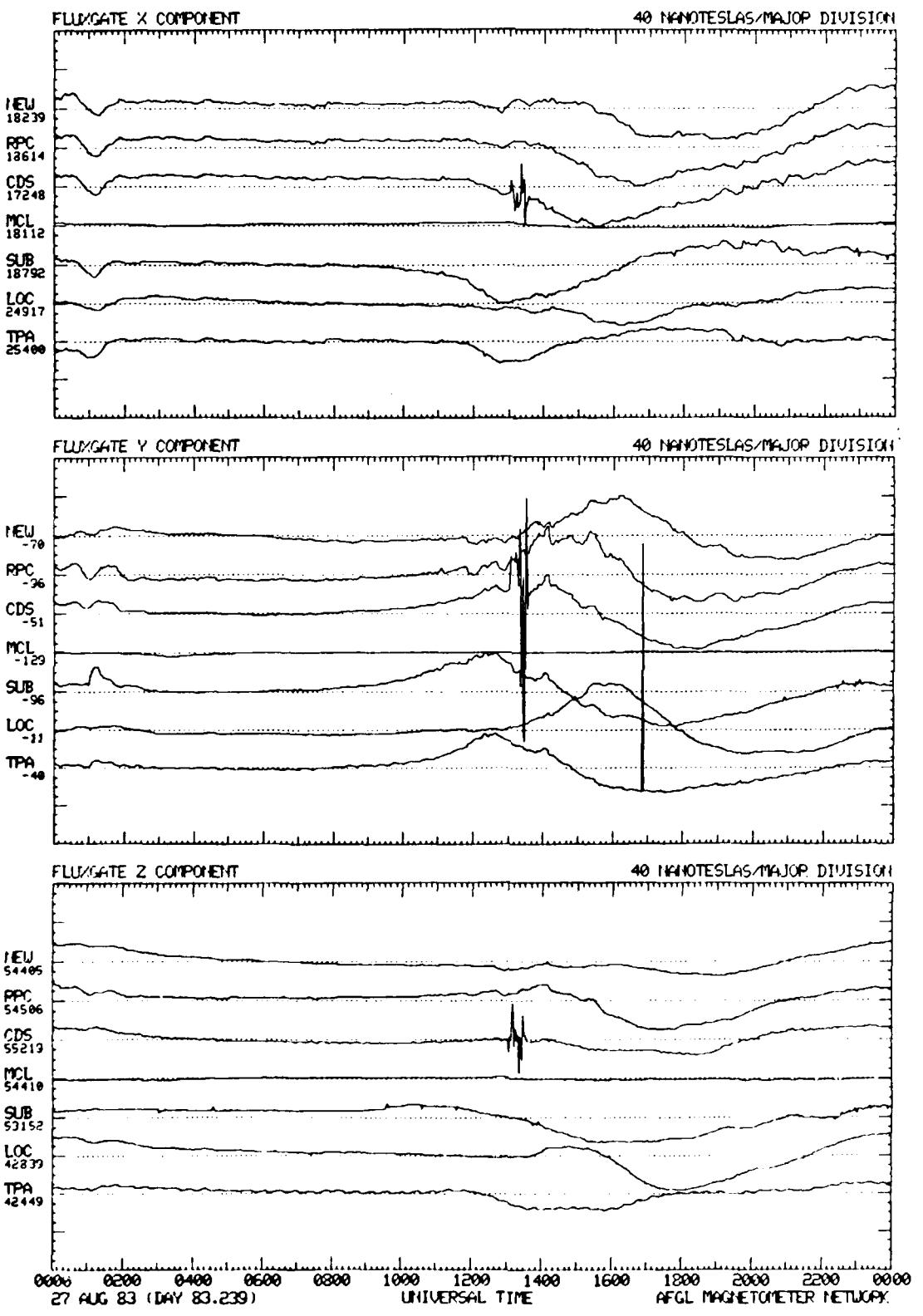












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18239
RPC
18615
CDS
17251
MCL
18116
SUB
18792
LOC
24914
TPA
25105

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-61
PPC
-93
CDS
-47
MCL
-143
SUB
-93
LOC
-7
TPA
-39

FLUXGATE Z COMPONENT

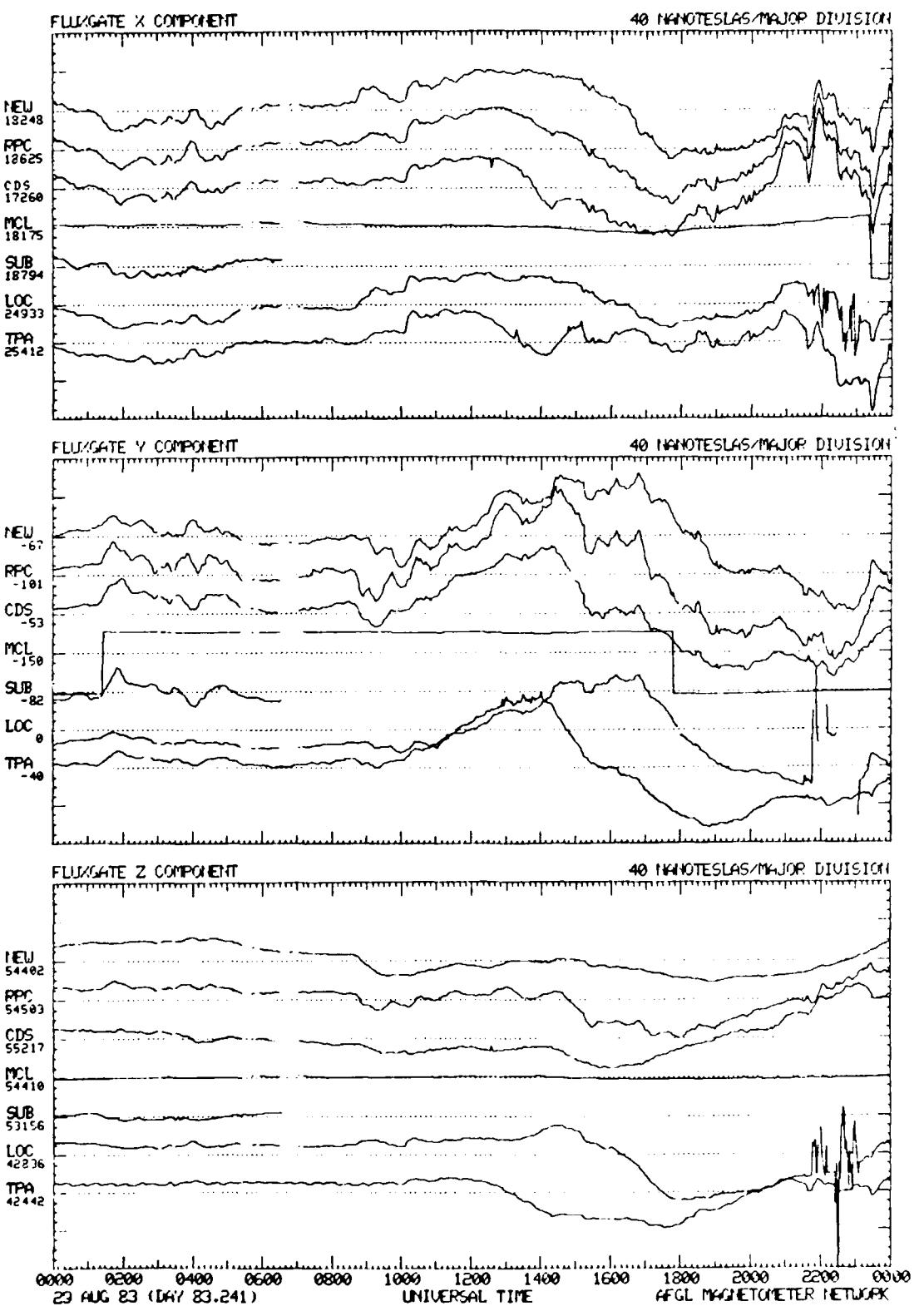
40 NANOTESLAS/MAJOR DIVISION

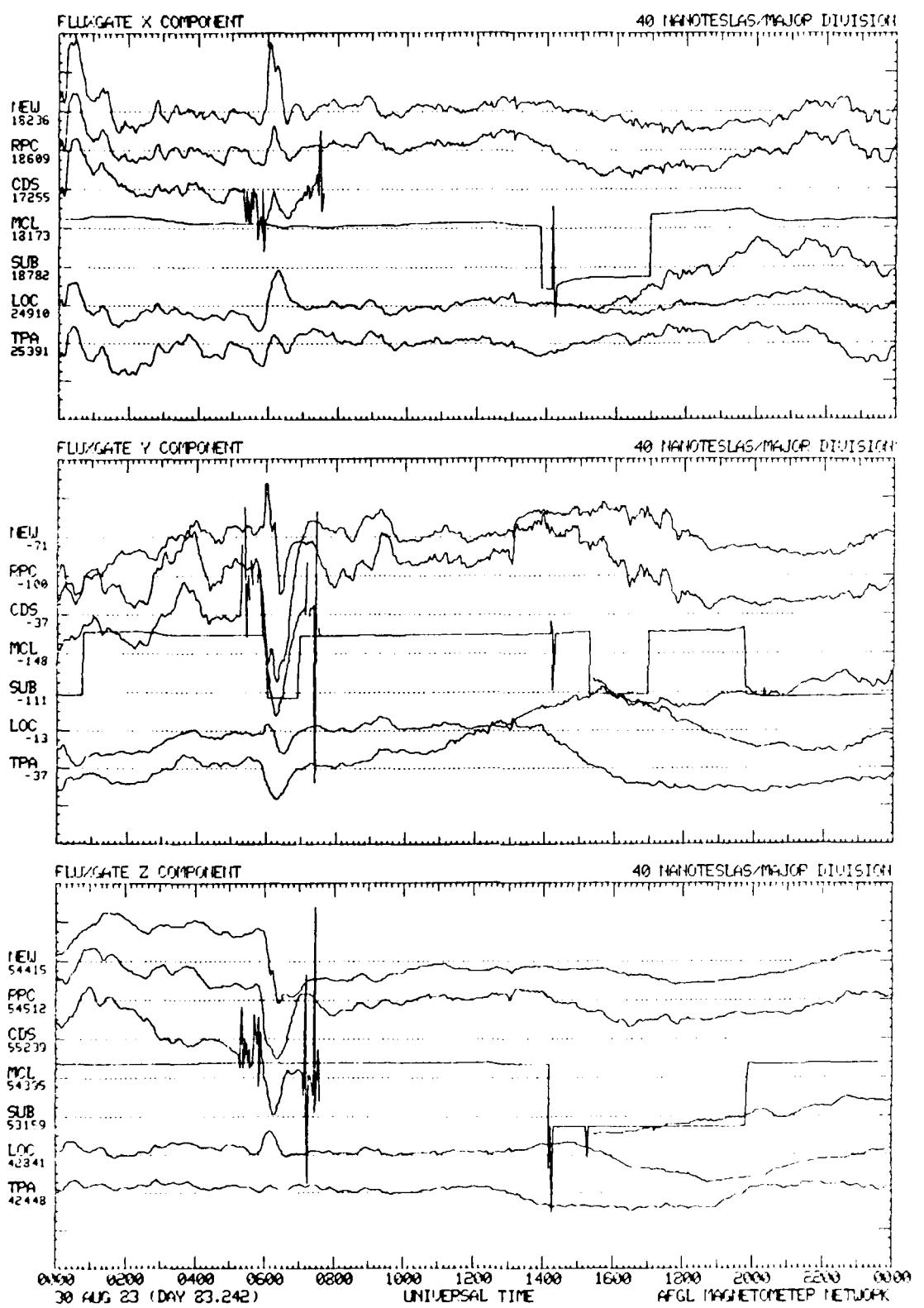
NEW
54407
PPC
54583
CDS
55216
MCL
54418
SUB
53152
LOC
42839
TPA
42446

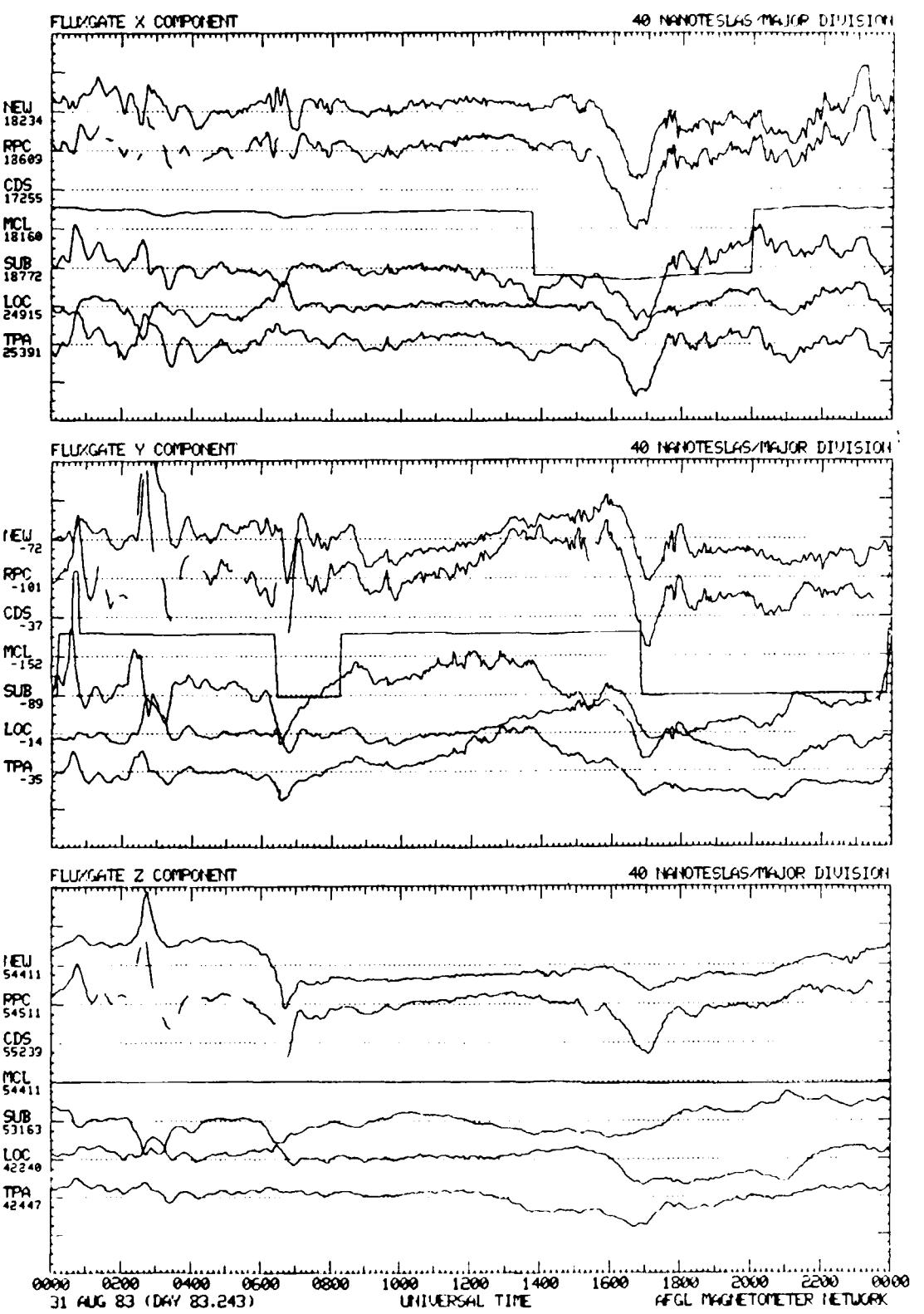
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
23 AUG 83 (DAY 83.240)

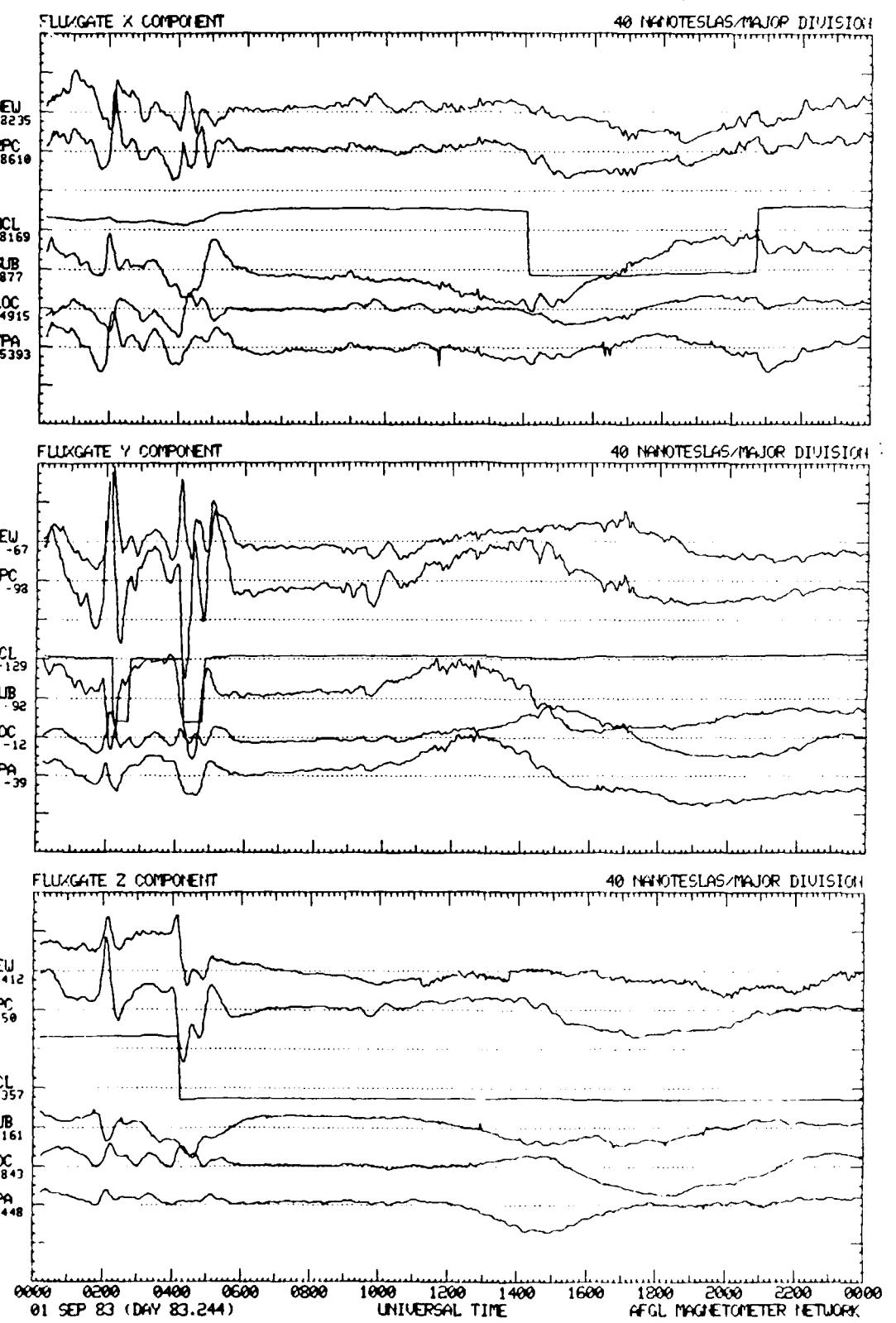
UNIVERSAL TIME

AFGL MAGNETOMETER NET UNP.









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18234
RPC
18614

MCL
18190
SUB
18782
LOC
24922
TPA
25398

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-73
RPC
-162

MCL
-126
SUB
-93
LOC
-11
TPA
-42

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

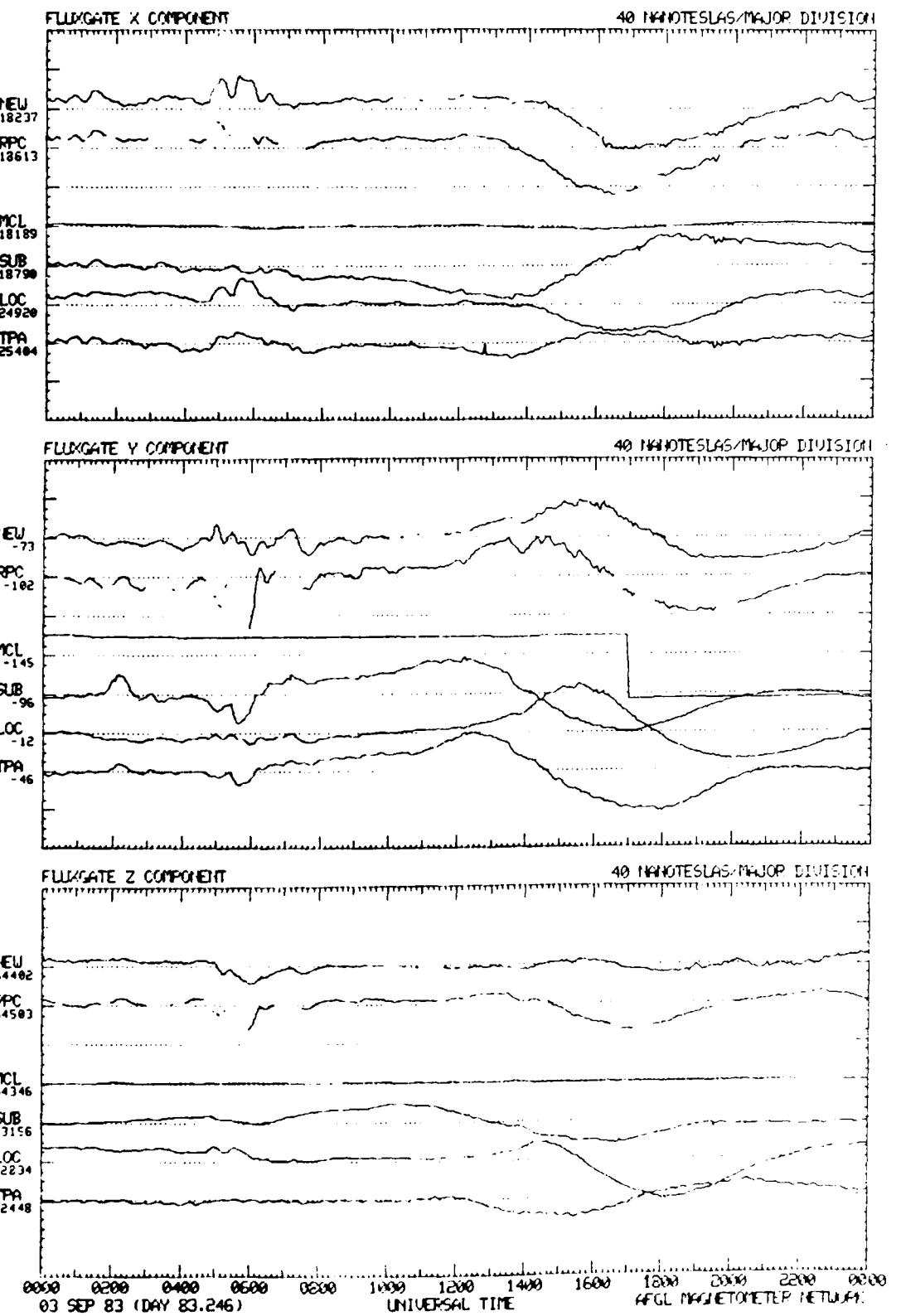
NEU
54403
RPC
54507

MCL
54346
SUB
53161
LOC
42835
TPA
42442

02 SEP 83 (DAY 83.245)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18241RPC
18614MCL
18190SUB
18791LOC
24931TPA
25405

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-74RPC
-106MCL
-172SUB
-94LOC
-13TPA
-40

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54398RPC
54500MCL
54347SUB
53157LOC
42833TPA
42446

04 SEP 83 (DAY 83.247)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18244
RPC
18614

MCL
18190
SUB
18798
LOC
24937
TPA
25489

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-75
RPC
-105

MCL
-155
SUB
-92
LOC
-11
TPA
-4

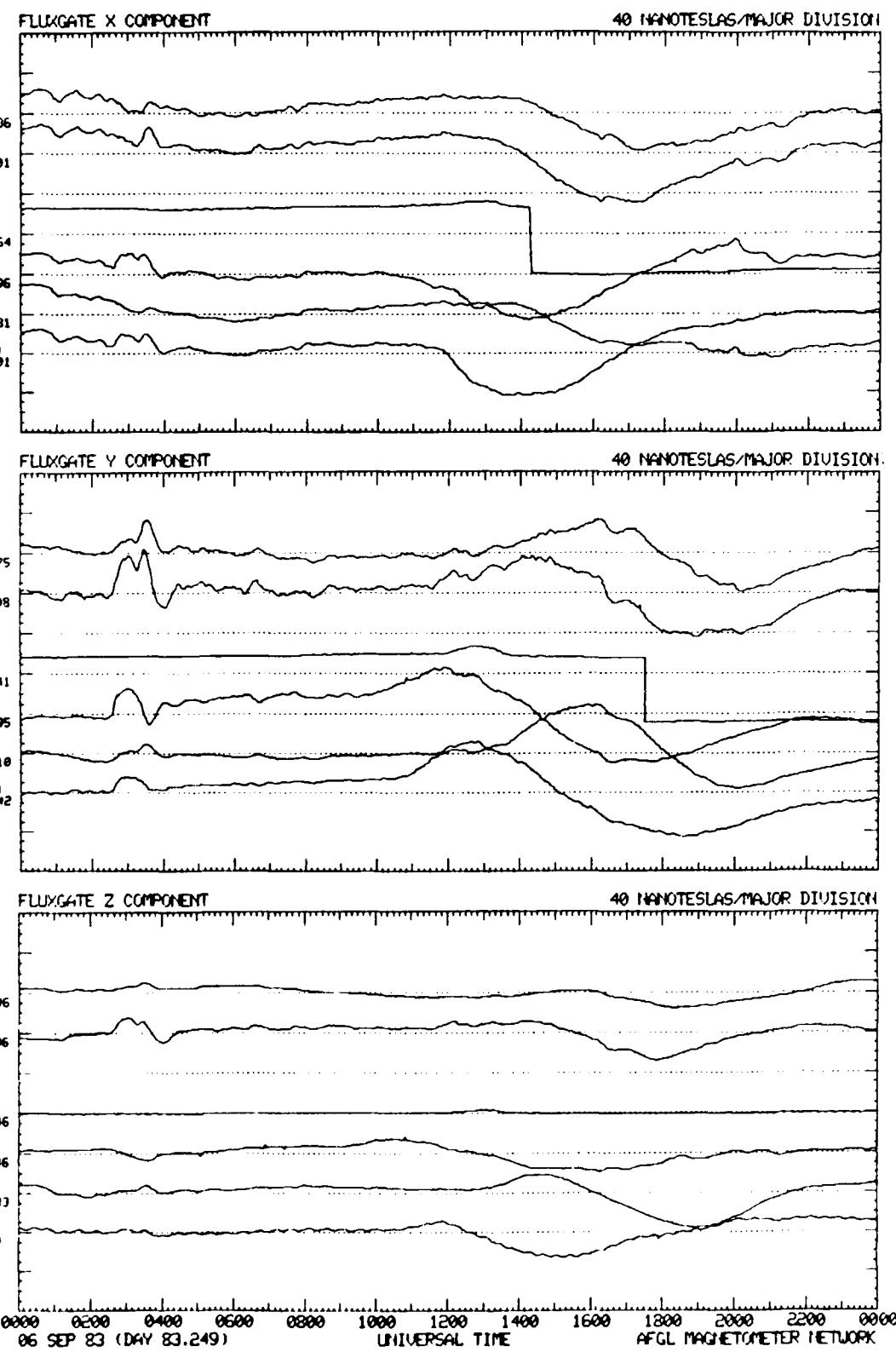
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54396
RPC
54498

MCL
54347
SUB
53150
LOC
42835
TPA
42444

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 SEP 83 (DAY 83.248) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12249
PPC
12603

MCL
13157
SUB
18795
LOC
24938
TPA
25407

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-78
PPC
-189

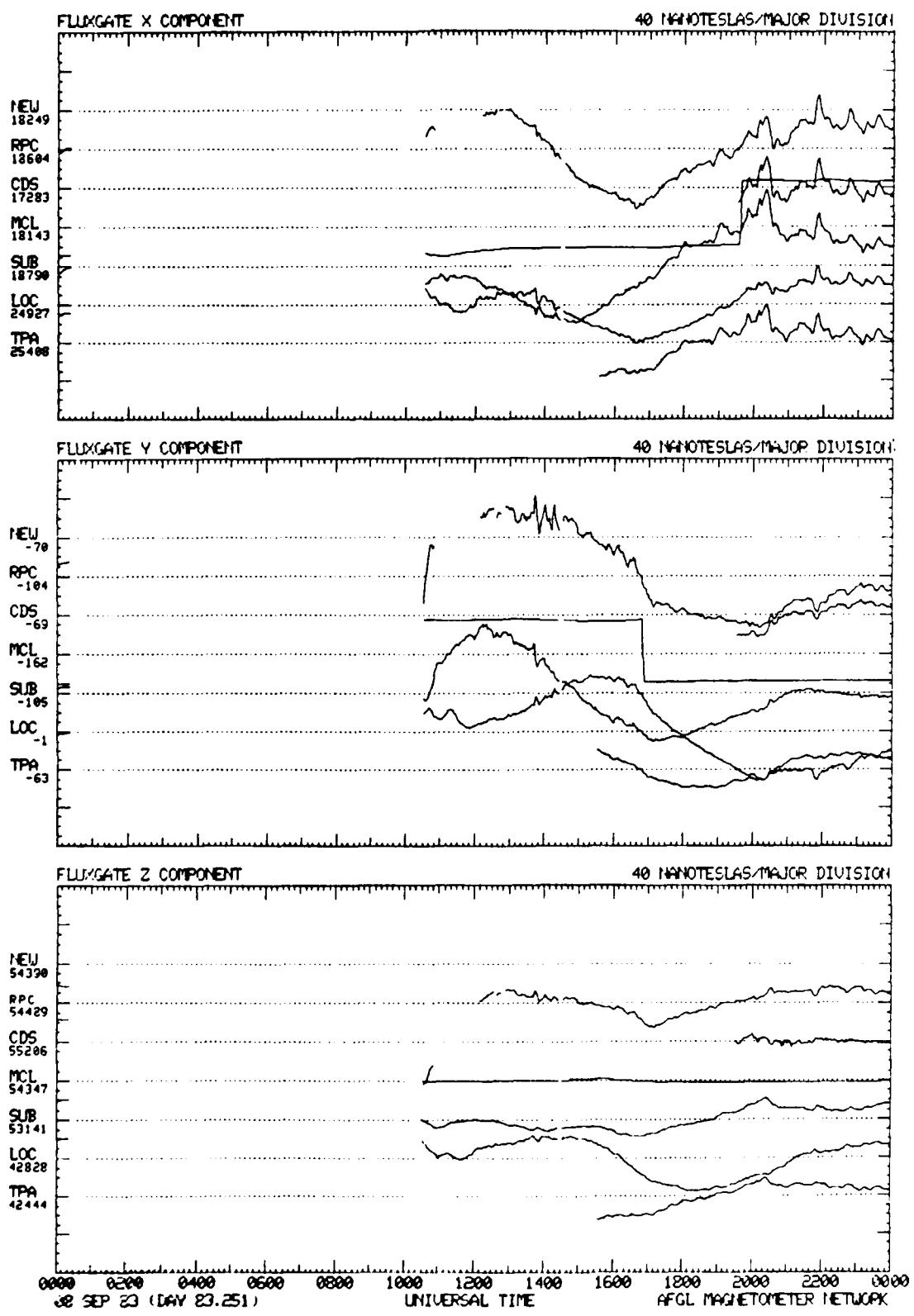
MCL
-172
SUB
-191
LOC
-13
TPA
-30

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54390
PPC
54493

MCL
54358
SUB
53152
LOC
42834
TPA
424480000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
07 SEP 83 (DAY 83.250) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18370
RPC
18600
CDS
17254
MCL
18173
SUB
18783
LOC
24923
TPA
23397

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

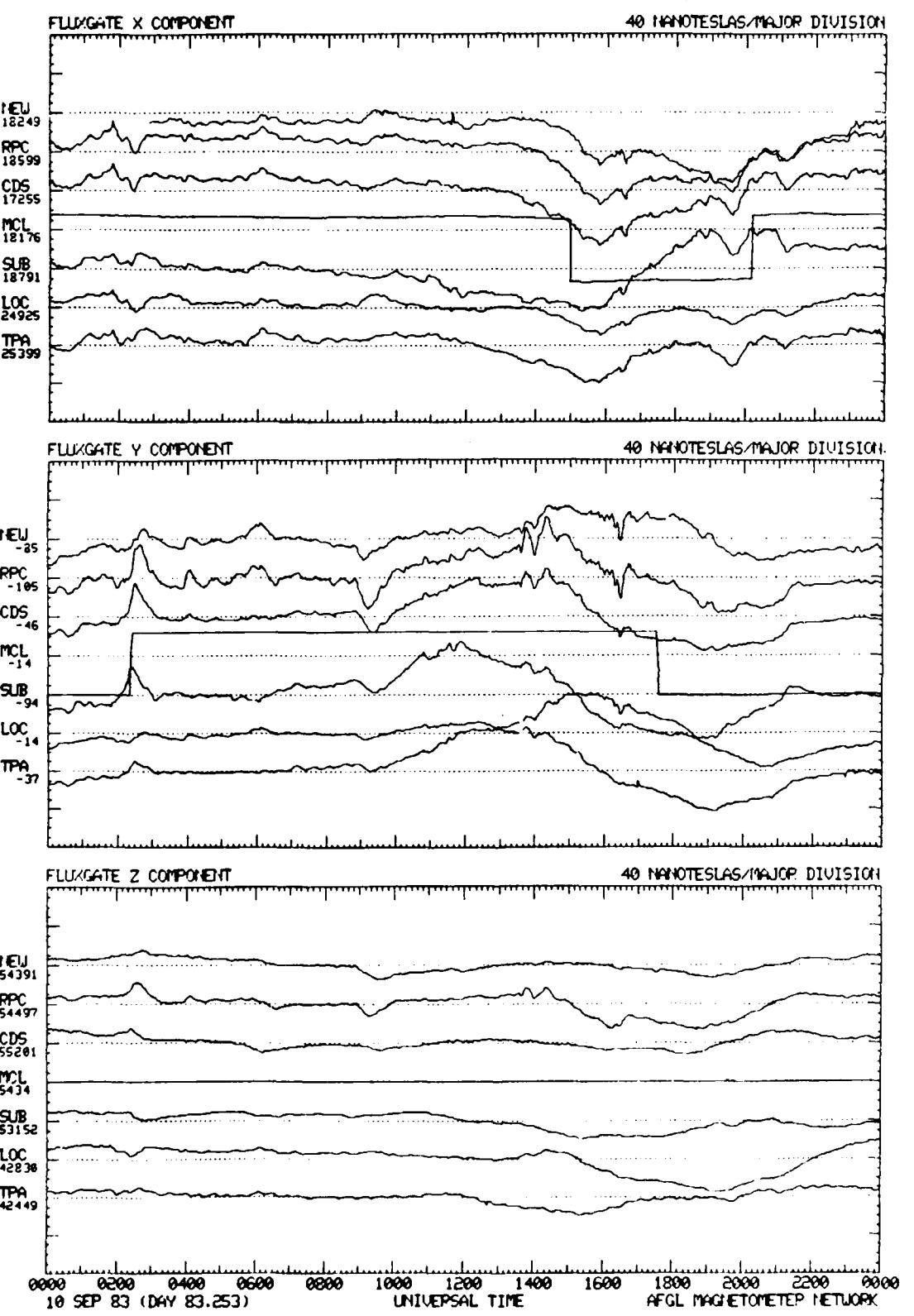
NEU
-126
RPC
-104
CDS
-49
MCL
-153
SUB
-96
LOC
-12
TPA
-40

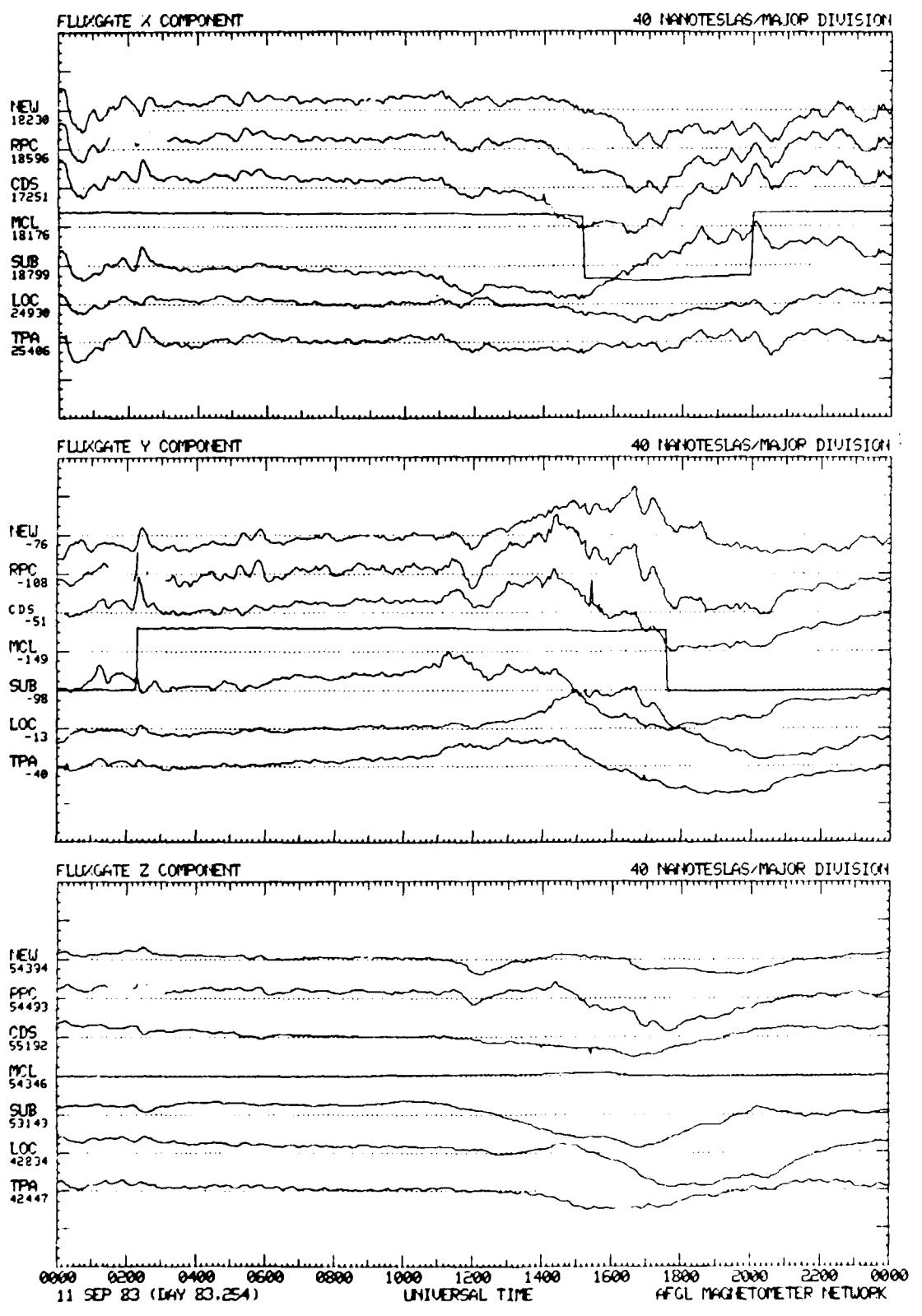
FLUXGATE Z COMPONENT

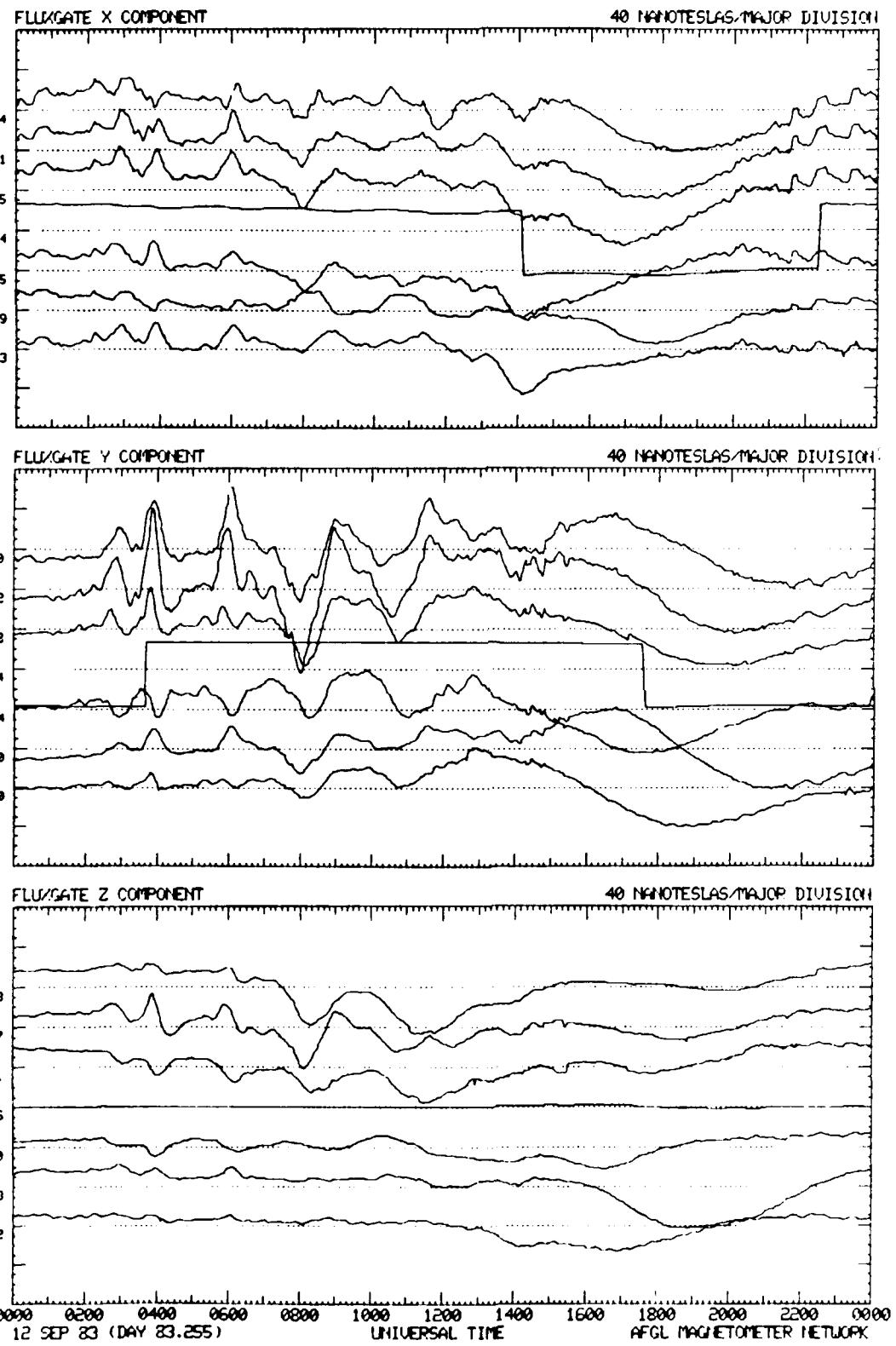
40 NANOTESLAS/MAJOR DIVISION

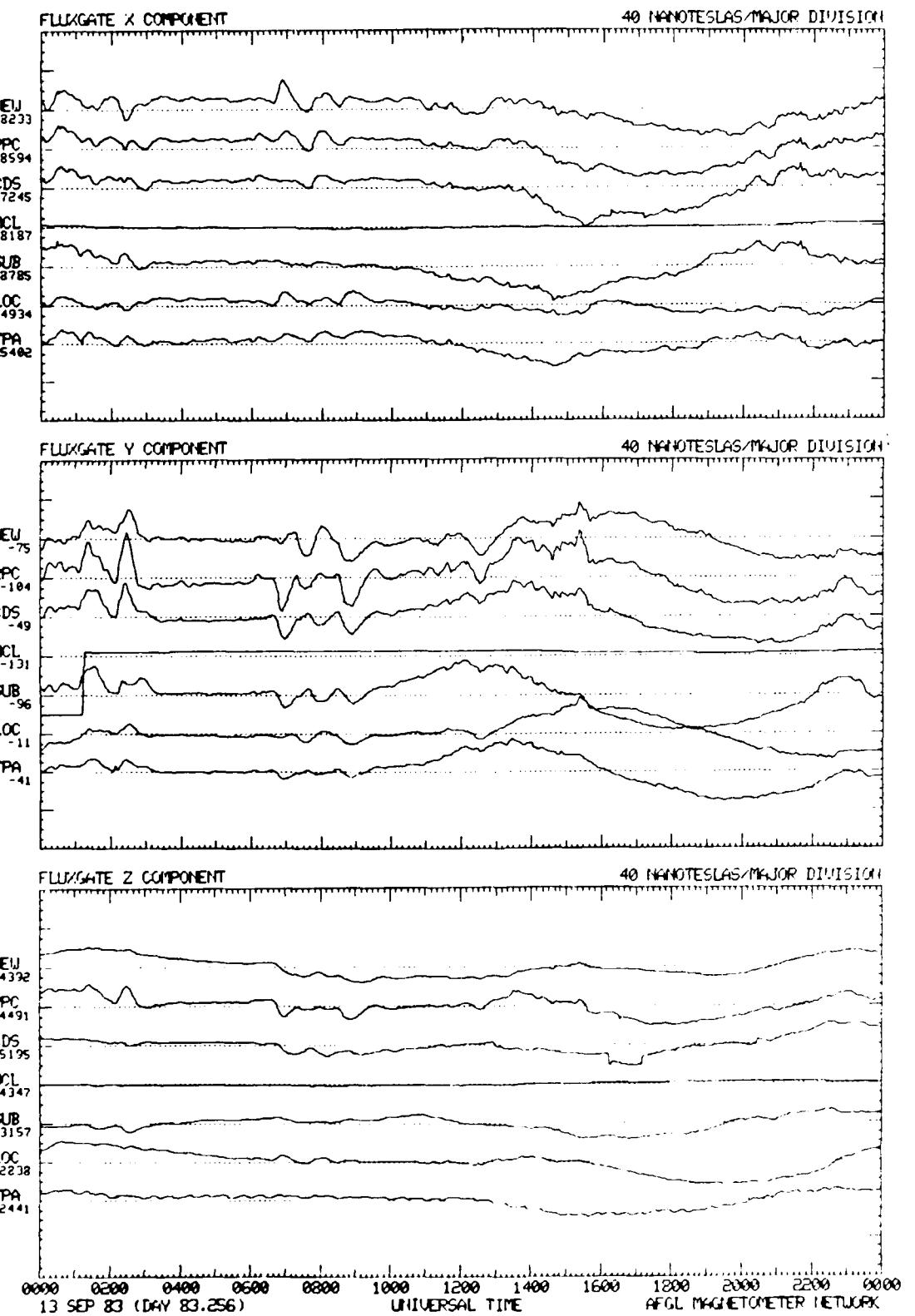
NEU
54388
RPC
54497
CDS
55206
MCL
-46
SUB
53159
LOC
42829
TPA
42445

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 SEP 83 (DAY 83.252) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
16238
RPC
18600
CDS
17250
MCL
18187
SUB
18783
LOC
2493
TPA
25486

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-79
RPC
-189
CDS
-53
MCL
-147
SUB
-94
LOC
-16
TPA
-40

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54395
RPC
54491
CDS
55177
MCL
54347
SUB
53162
LOC
42336
TPA
42444

0900 09200 09400 09600 09800 10000 10200 10400 10600 10800 11000 11200 11400 11600 11800 12000 12200 12400
14 SEP 83 (DAY 23.257) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU 18227
RPC 18587
CDS 17236
MCL 18167
SUB 18766
LOC 24926
TPA 25391

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

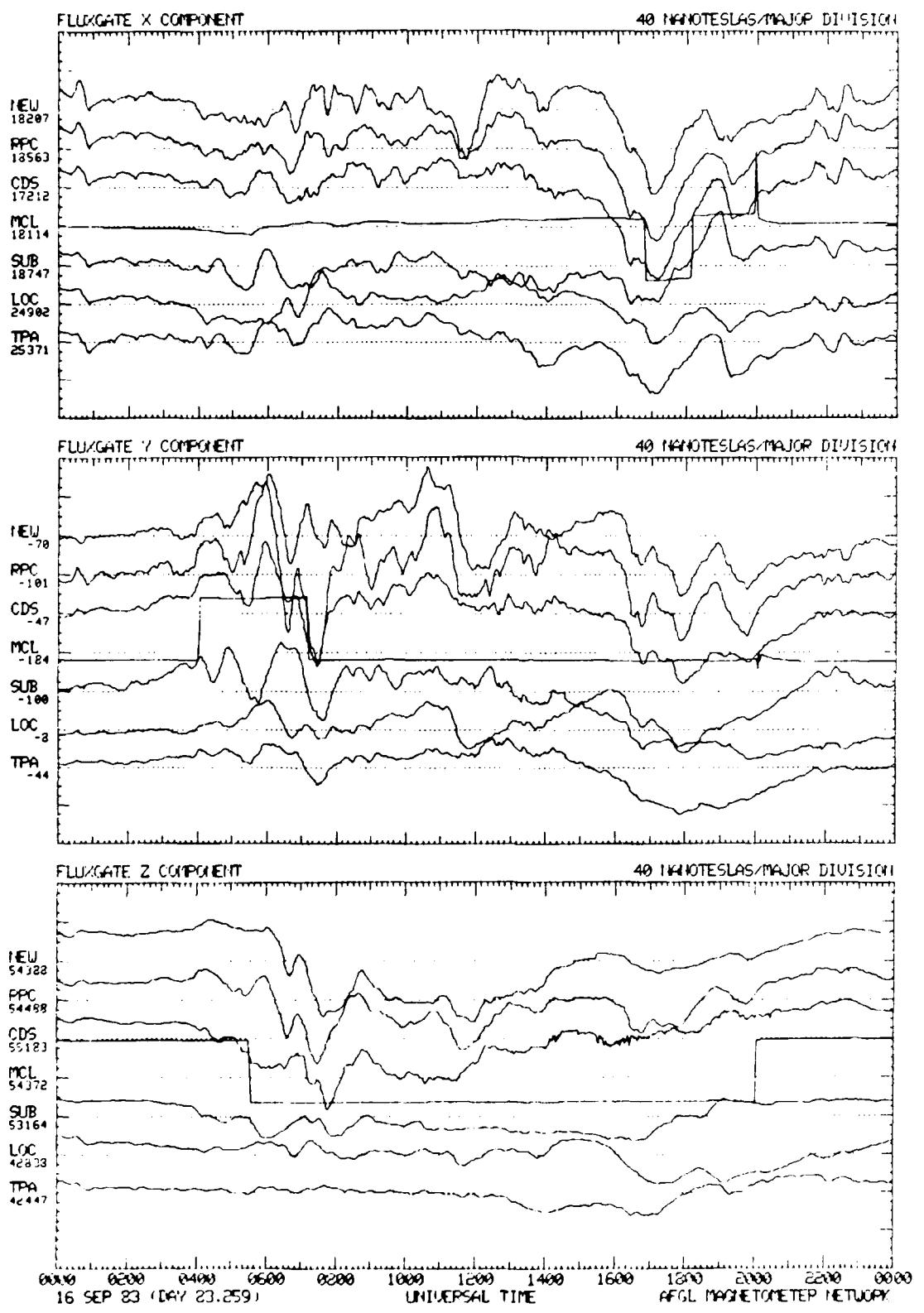
NEU -77
RPC -164
CDS -50
MCL -178
SUB -97
LOC -13
TPA -43

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU 54397
RPC 54495
CDS 55191
MCL 54350
SUB 53170
LOC 42833
TPA 42438

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000 00000
15 SEP 83 (DAY 83.258) UNIVERSAL TIME AFGL MAGNETOETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12212
PPC
18579
CDS
17215
MCL
18121
SUB
18755
LOC
24904
TPA
25376

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

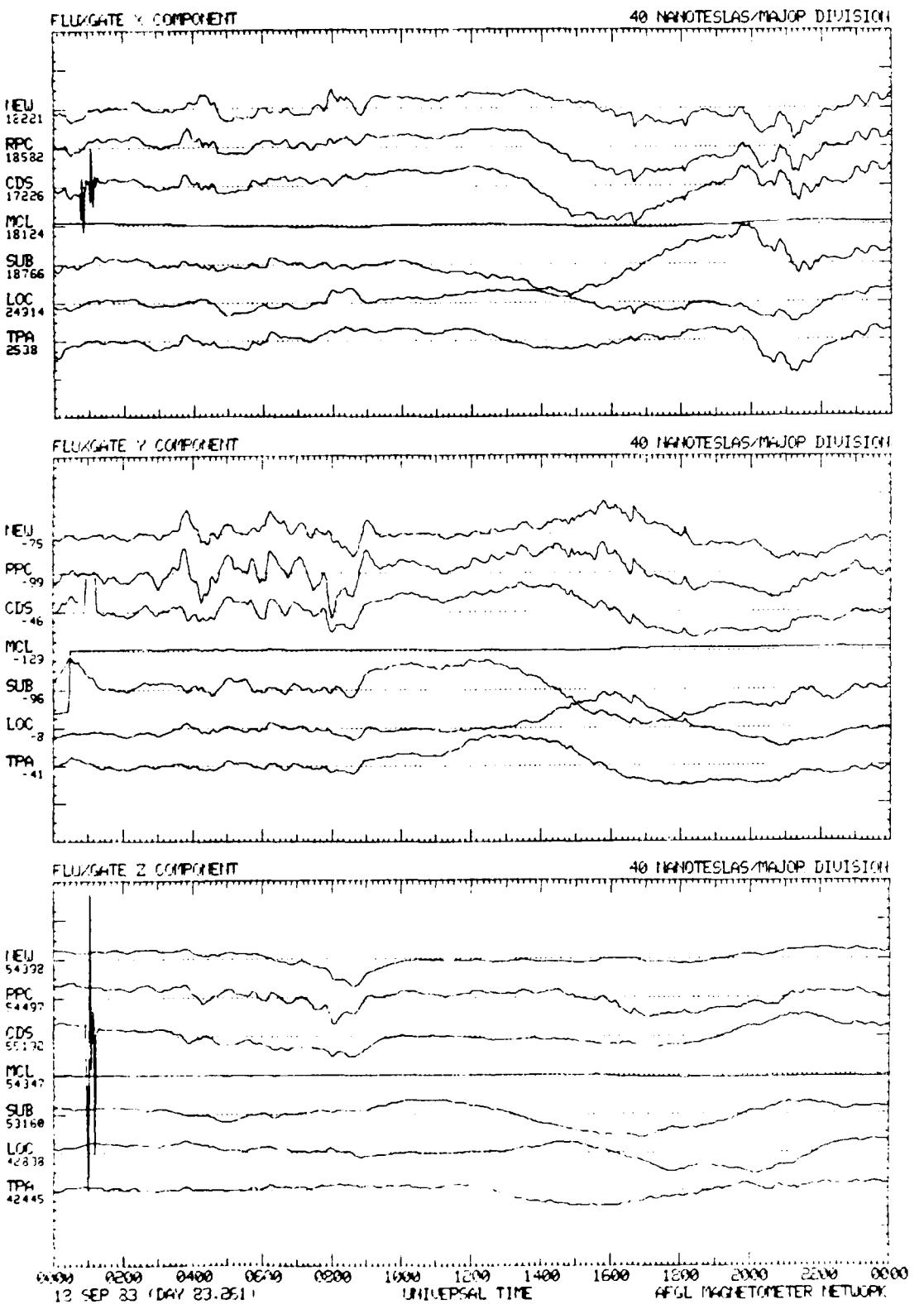
NEW
-62
PPC
-94
CDS
-41
MCL
-153
SUB
-91
LOC
-7
TPA
-37

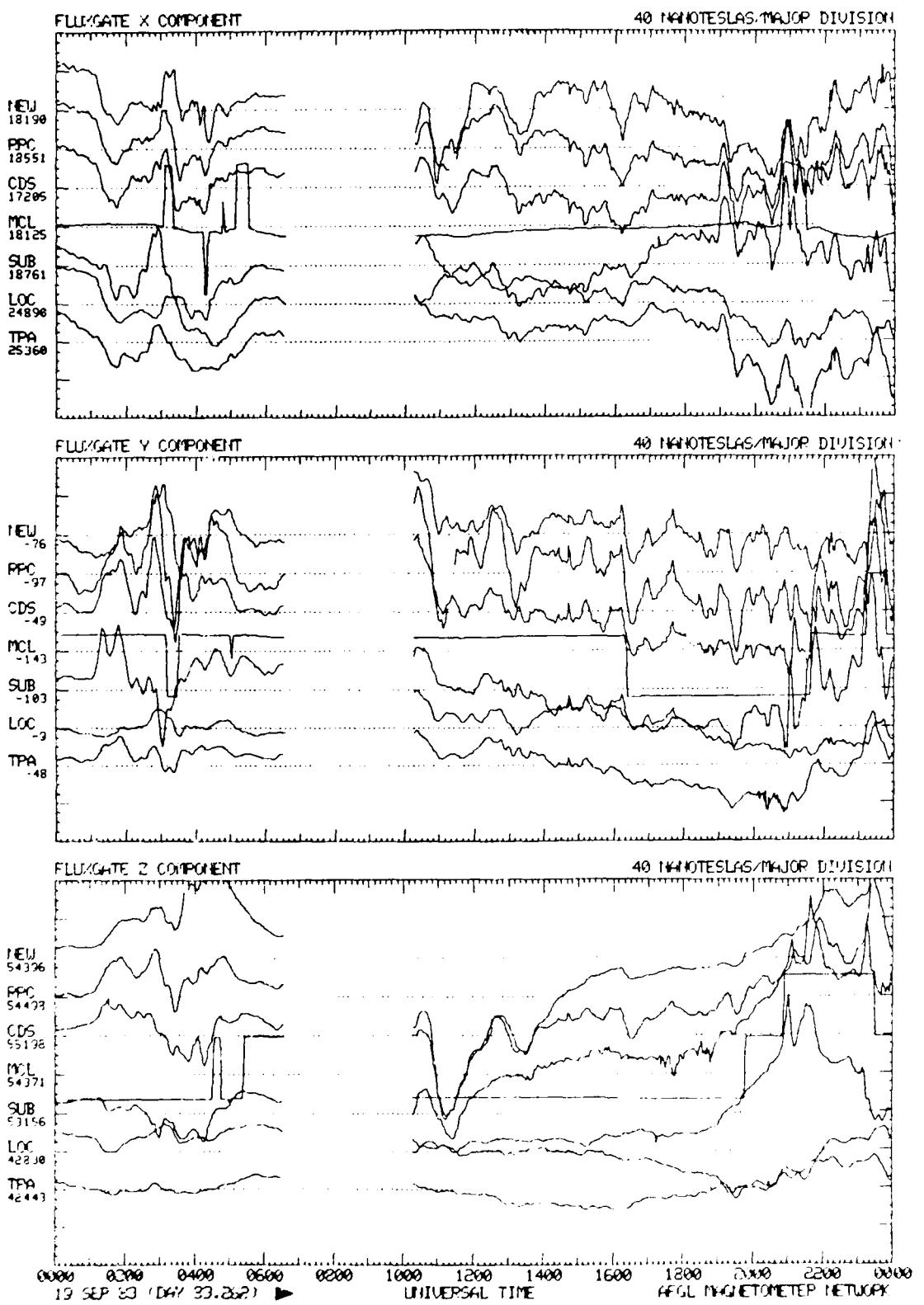
FLUXGATE Z COMPONENT

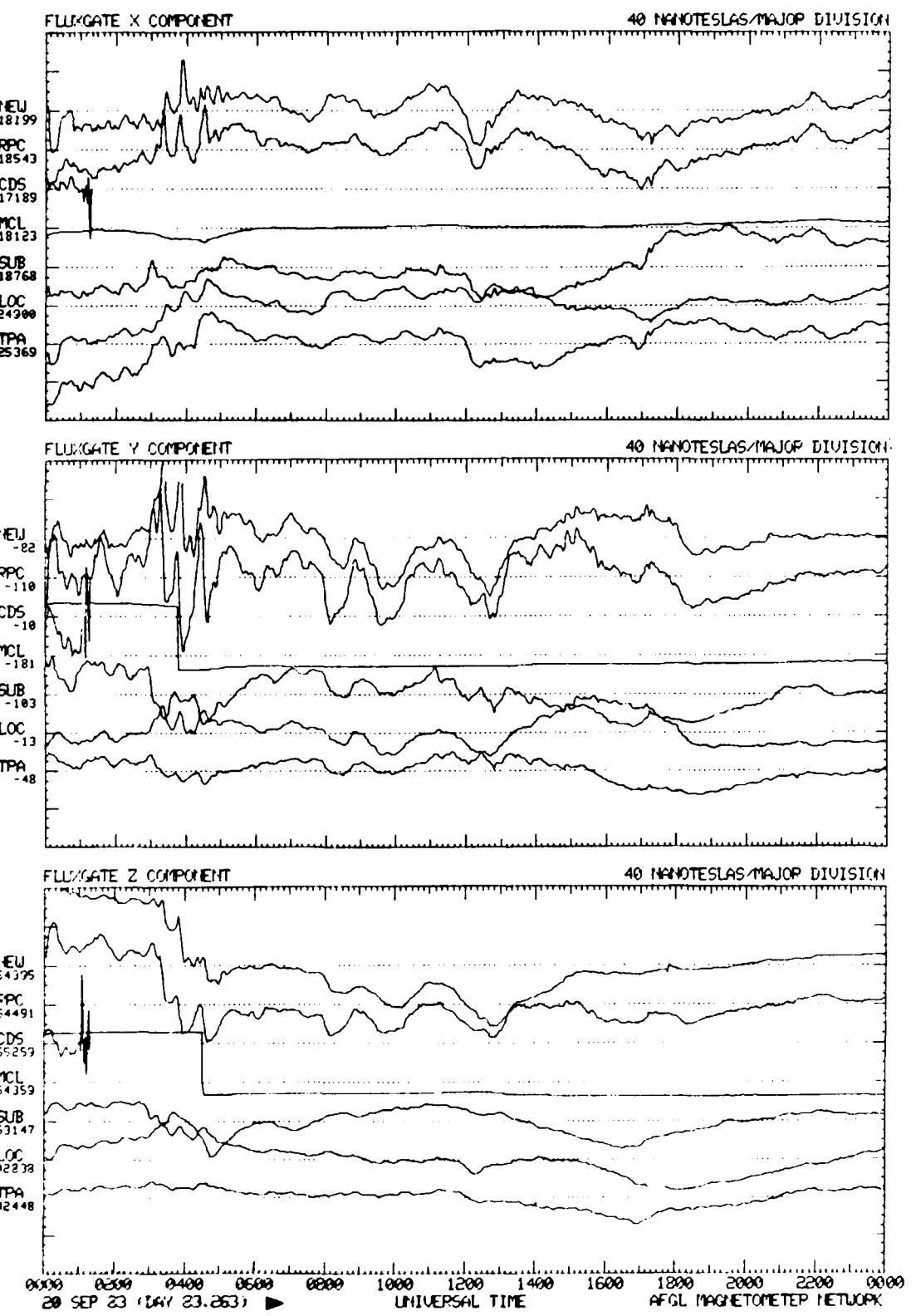
40 NANOTESLAS/MAJOR DIVISION

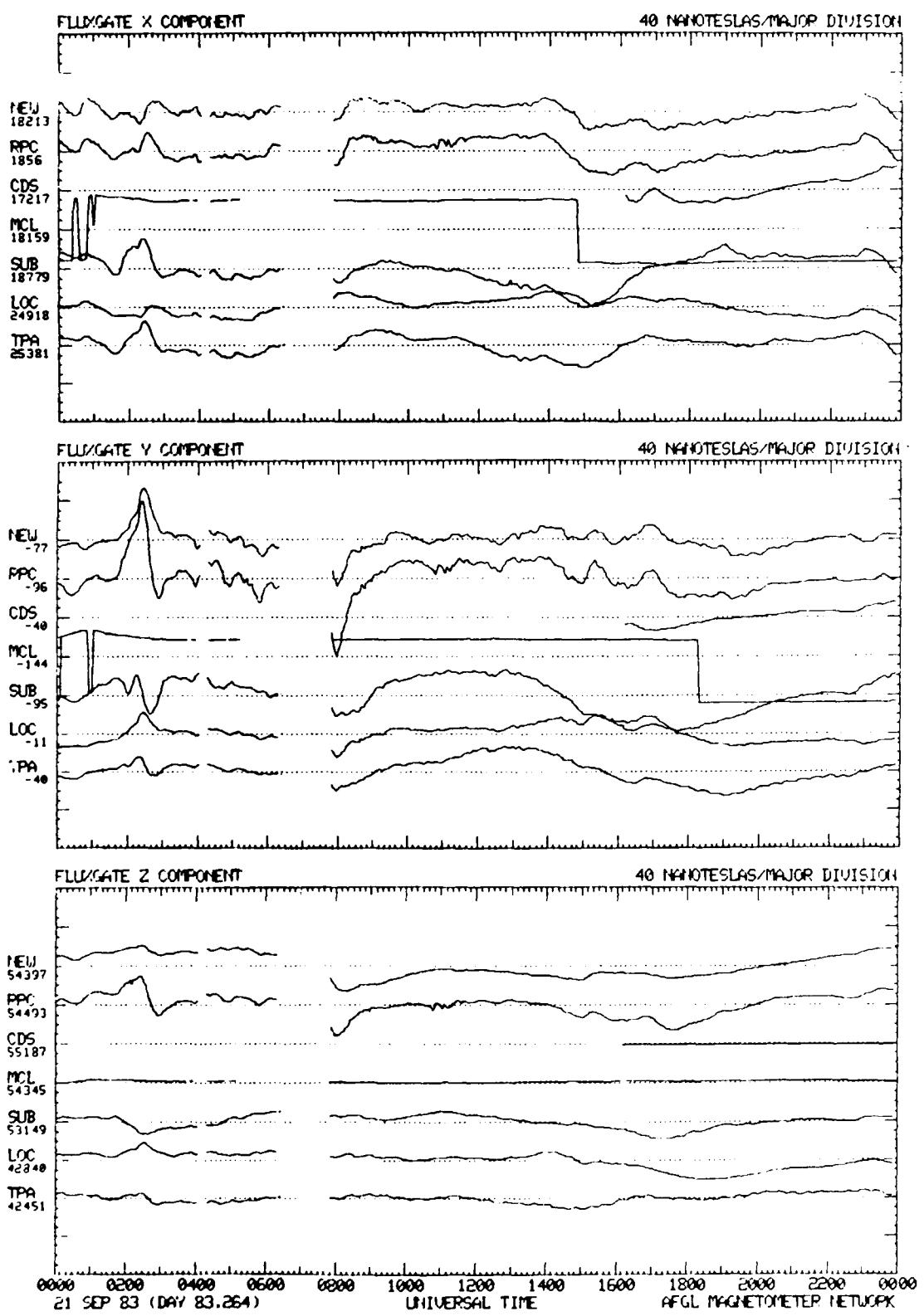
NEW
54491
PPC
54495
CDS
55126
MCL
54368
SUB
53158
LOC
42239
TPA
42446

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300
17 SEP 23 (DAY 23.260) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK









FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18216
RPC
18562
CDS
17229
MCL
18131
SUB
18777
LOC
24920
TPA
25385

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-72
RPC
-93
CDS
-41
MCL
-167
SUB
-97
LOC
-8
TPA
-44

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54398
RPC
54491
CDS
55185
MCL
54346
SUB
53156
LOC
42338
TPA
42448

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 SEP 23 (DAY 83.265) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12226
RPC
18572
CDS
17225
MCL
18159
SUB
18761
LOC
24924
TPA
25387

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

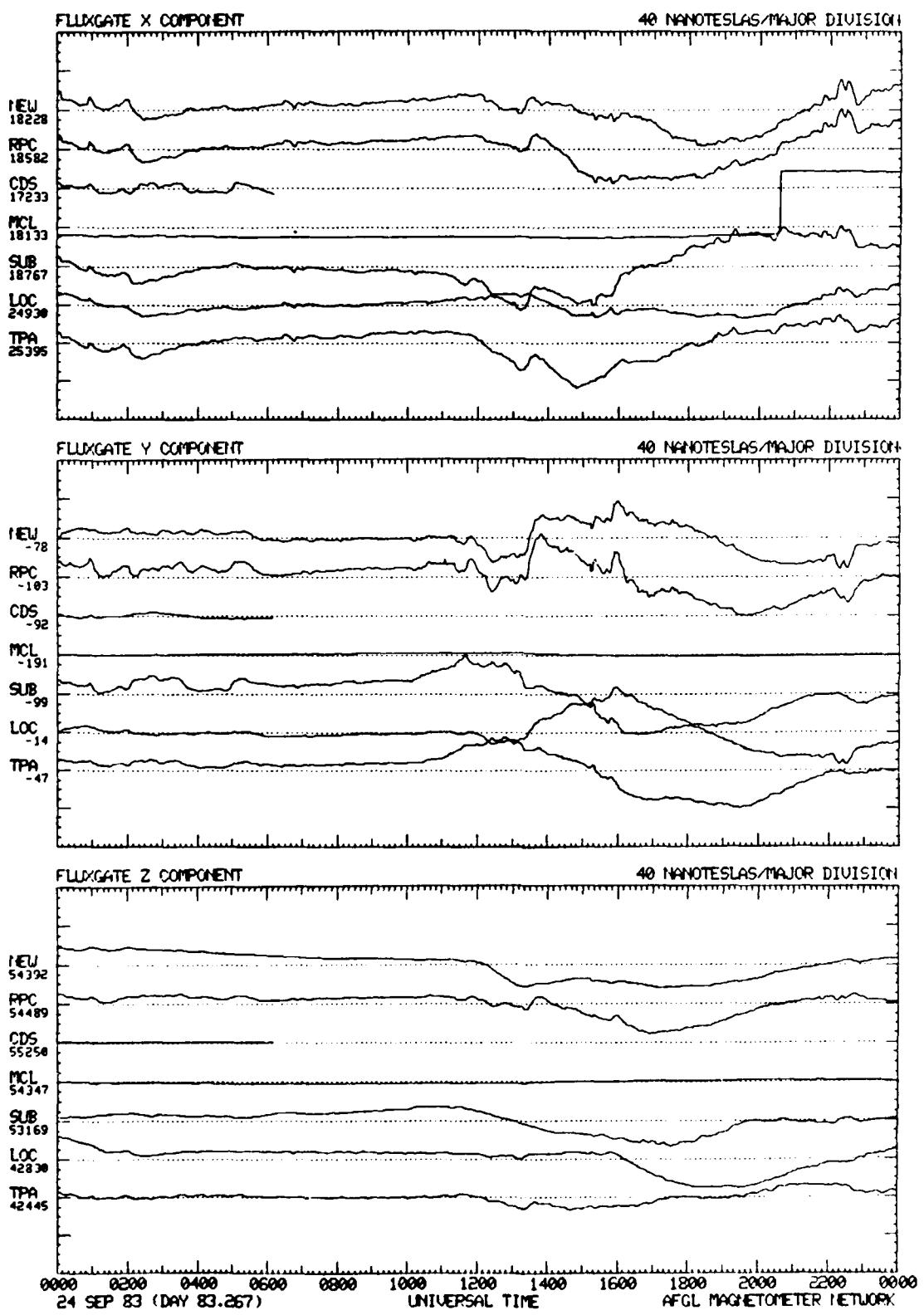
NEU
-20
RPC
-39
CDS
-39
MCL
-191
SUB
-94
LOC
-14
TPA
-40

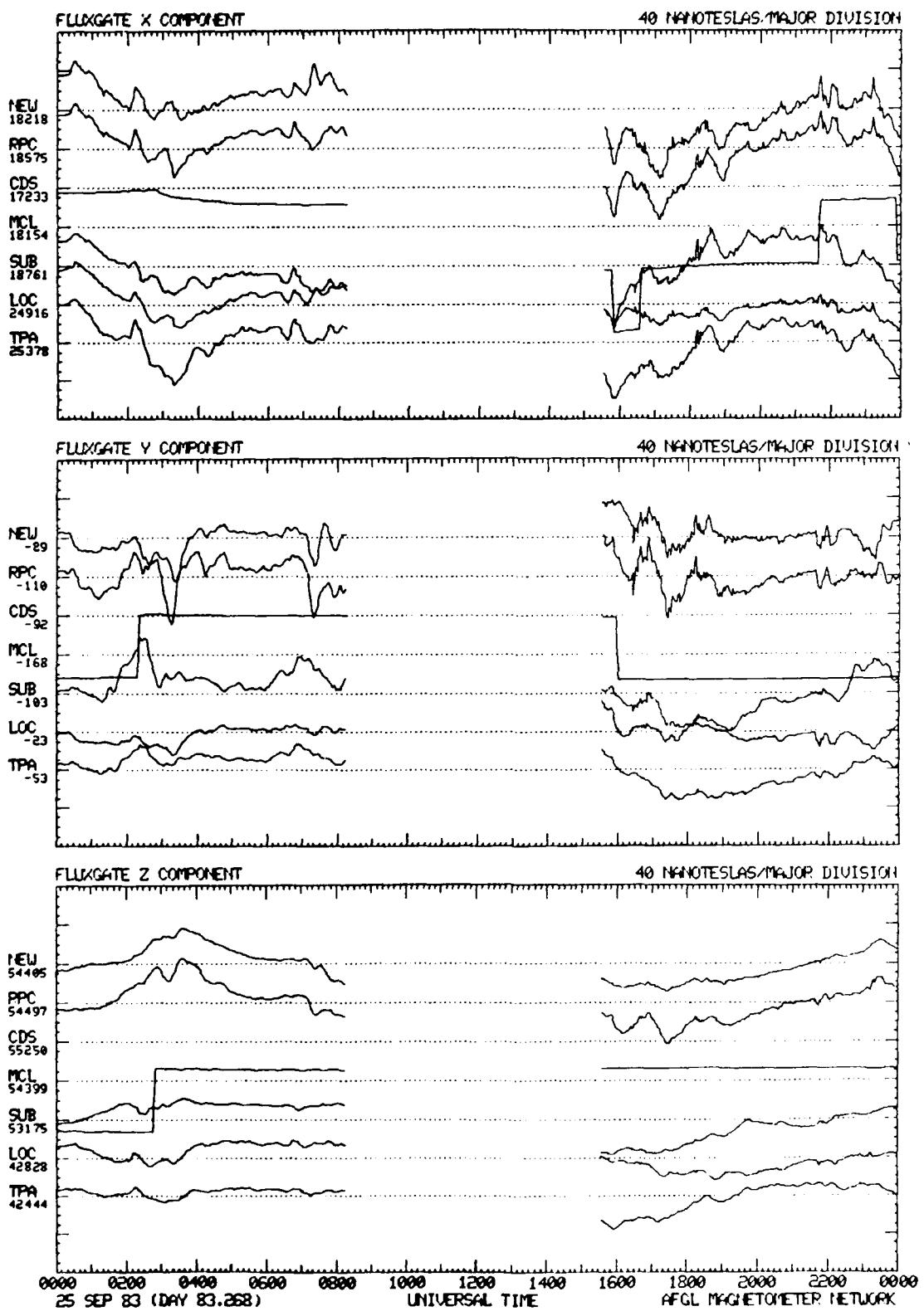
FLUXGATE Z COMPONENT

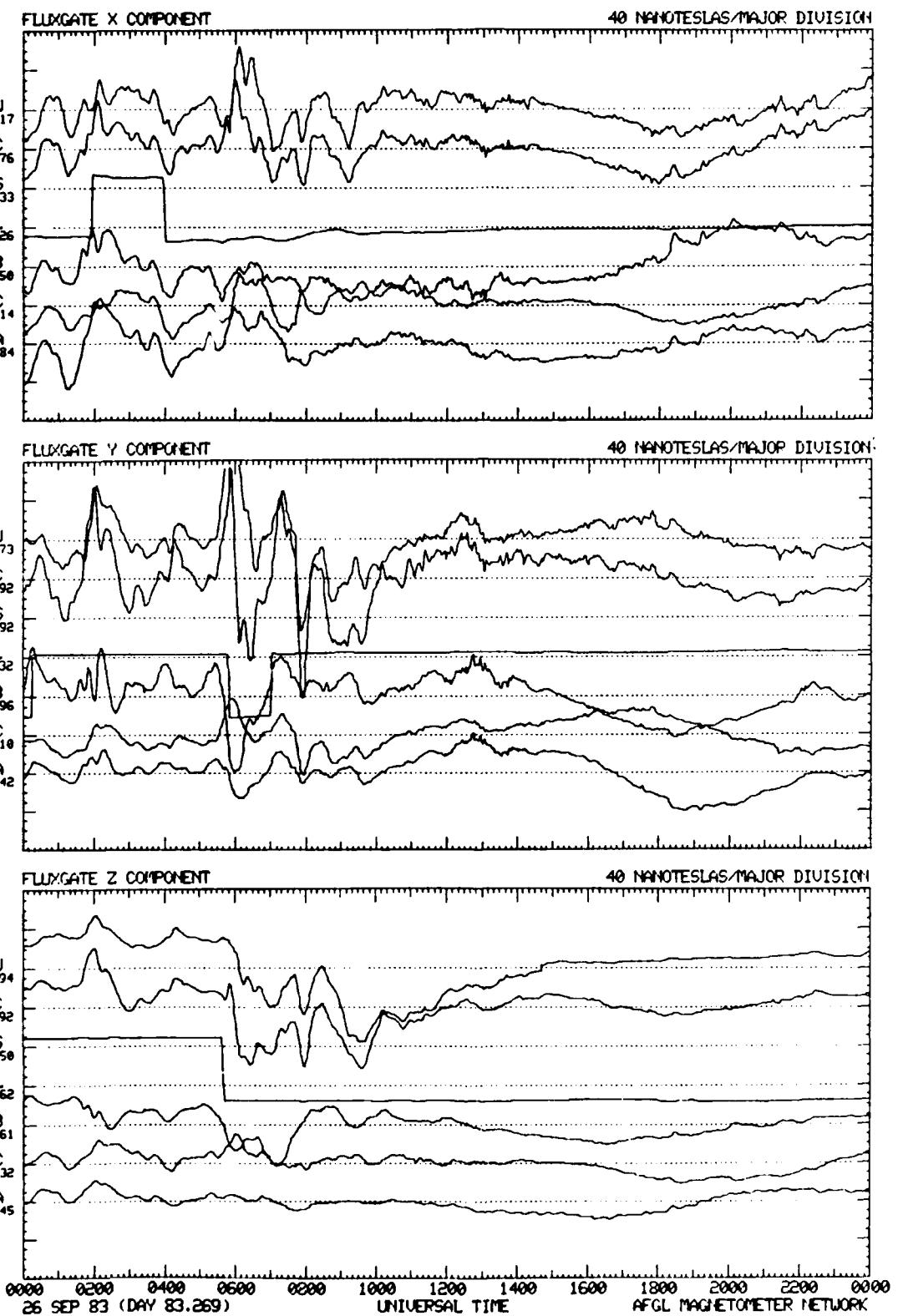
40 NANOTESLAS/MAJOR DIVISION

NEU
54399
RPC
54492
CDS
55120
MCL
54345
SUB
53170
LOC
42836
TPA
42445

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 SEP 83 (DAY 83.266) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



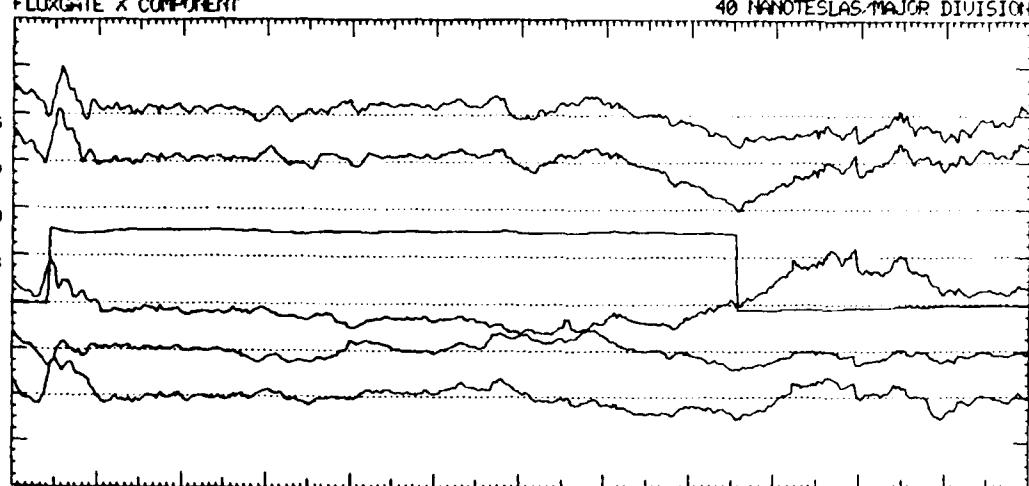




FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

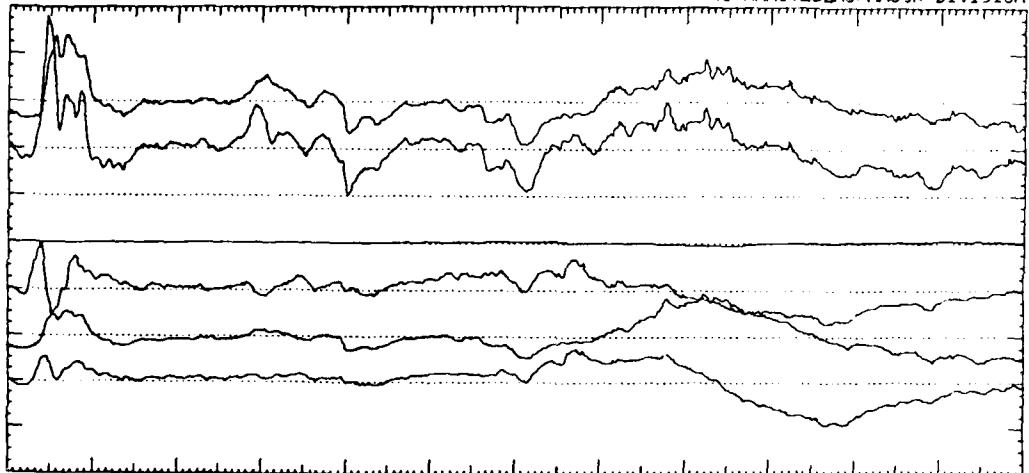
NEW
18226
RPC
18590
CDS
17233
MCL
18168
SUB
18764
LOC
24919
TPA
25388



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-72
RPC
-99
CDS
-92
MCL
-127
SUB
-96
LOC
-1
TPA
-44

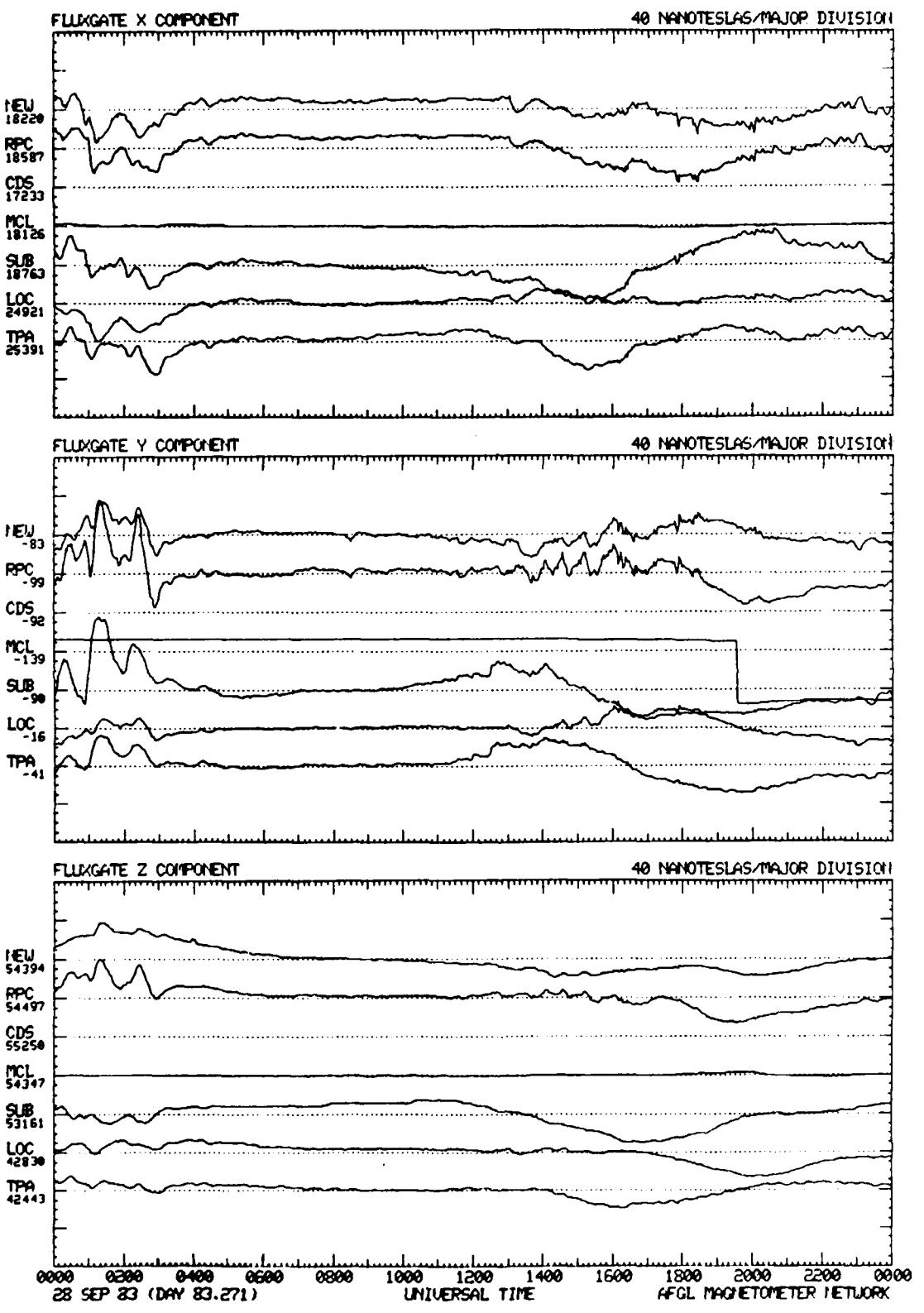


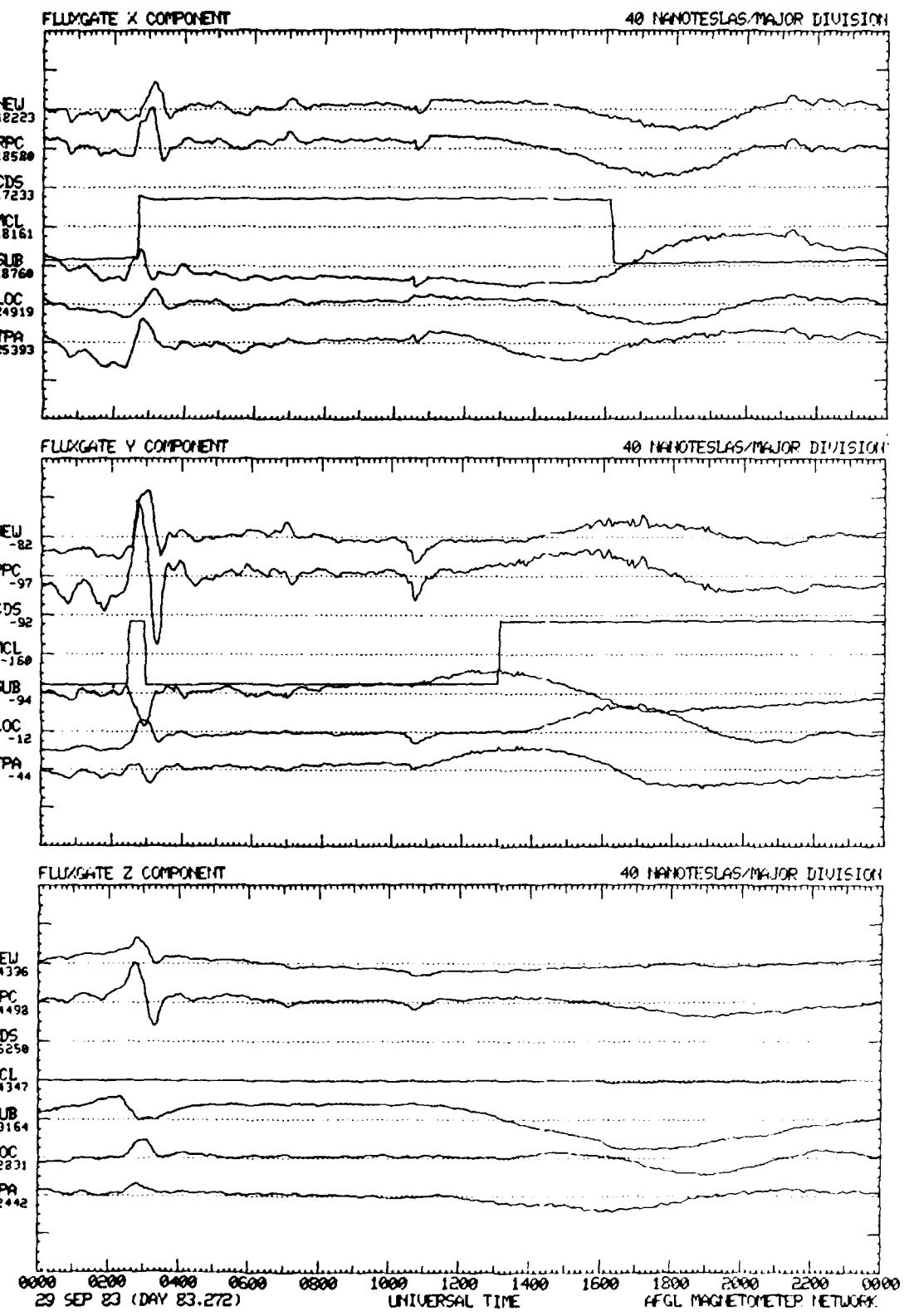
FLUXGATE Z COMPONENT

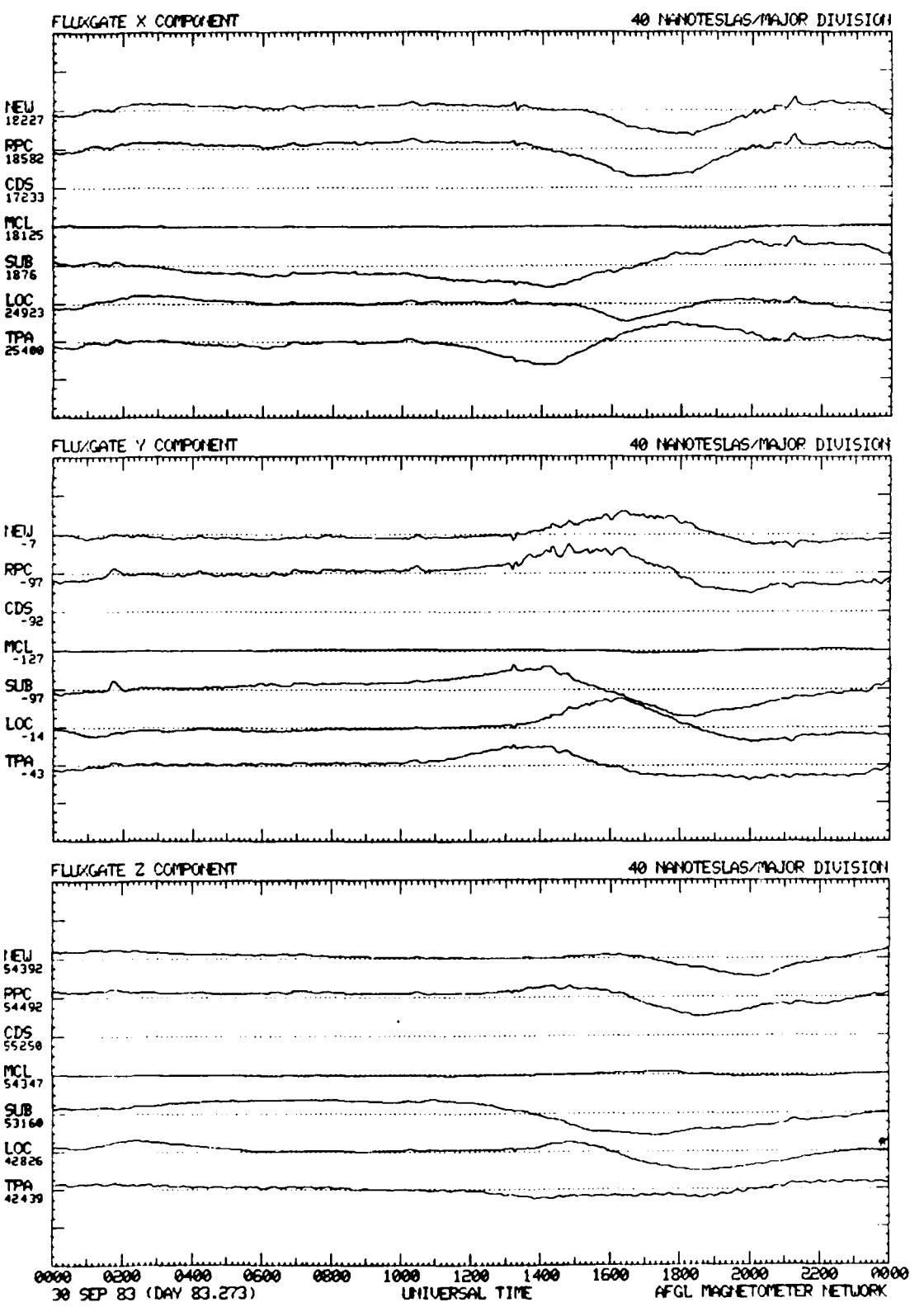
40 NANOTESLAS/MAJOR DIVISION

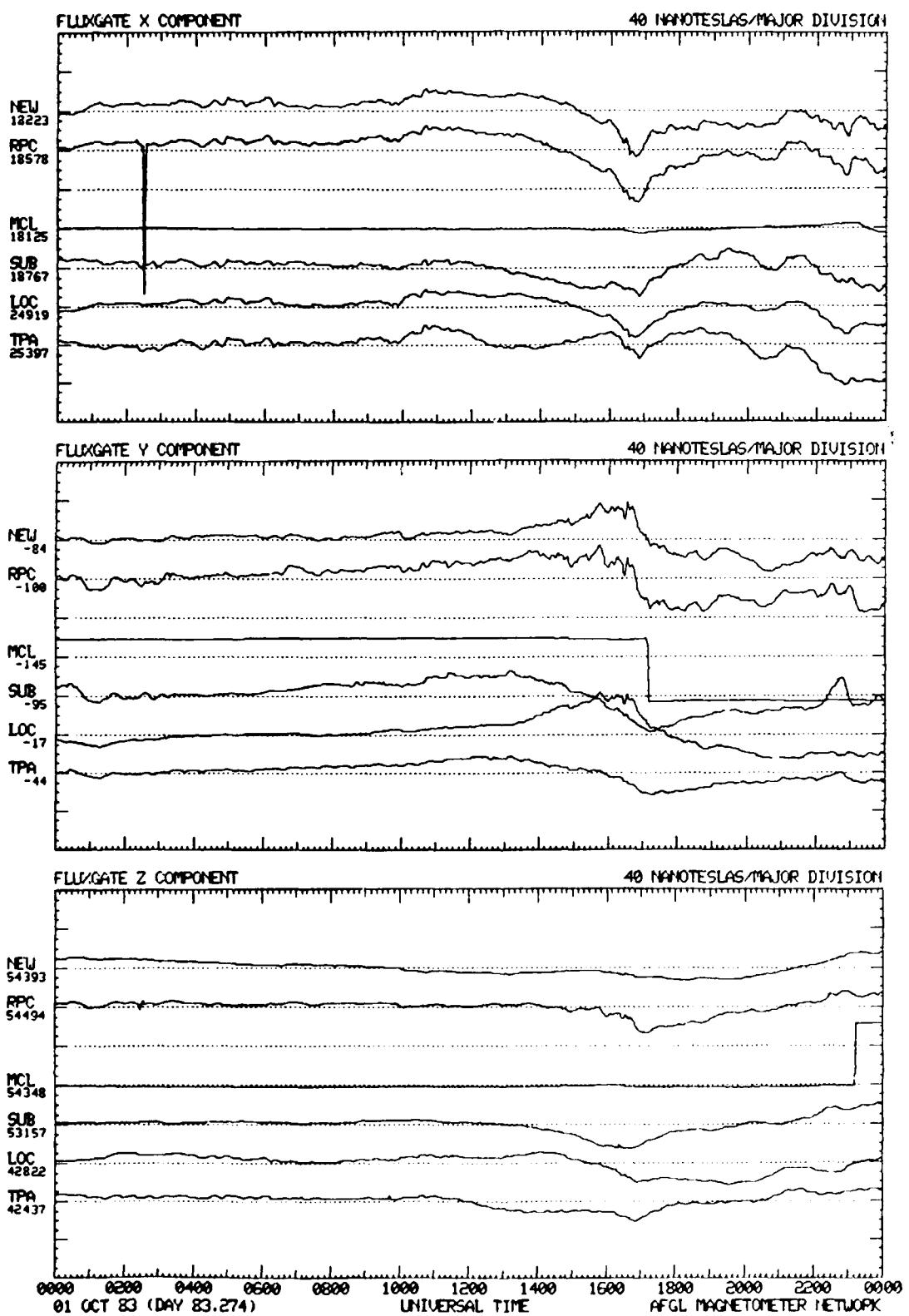
NEW
54481
RPC
54494
CDS
55250
MCL
54346
SUB
53160
LOC
42838
TPA
42445

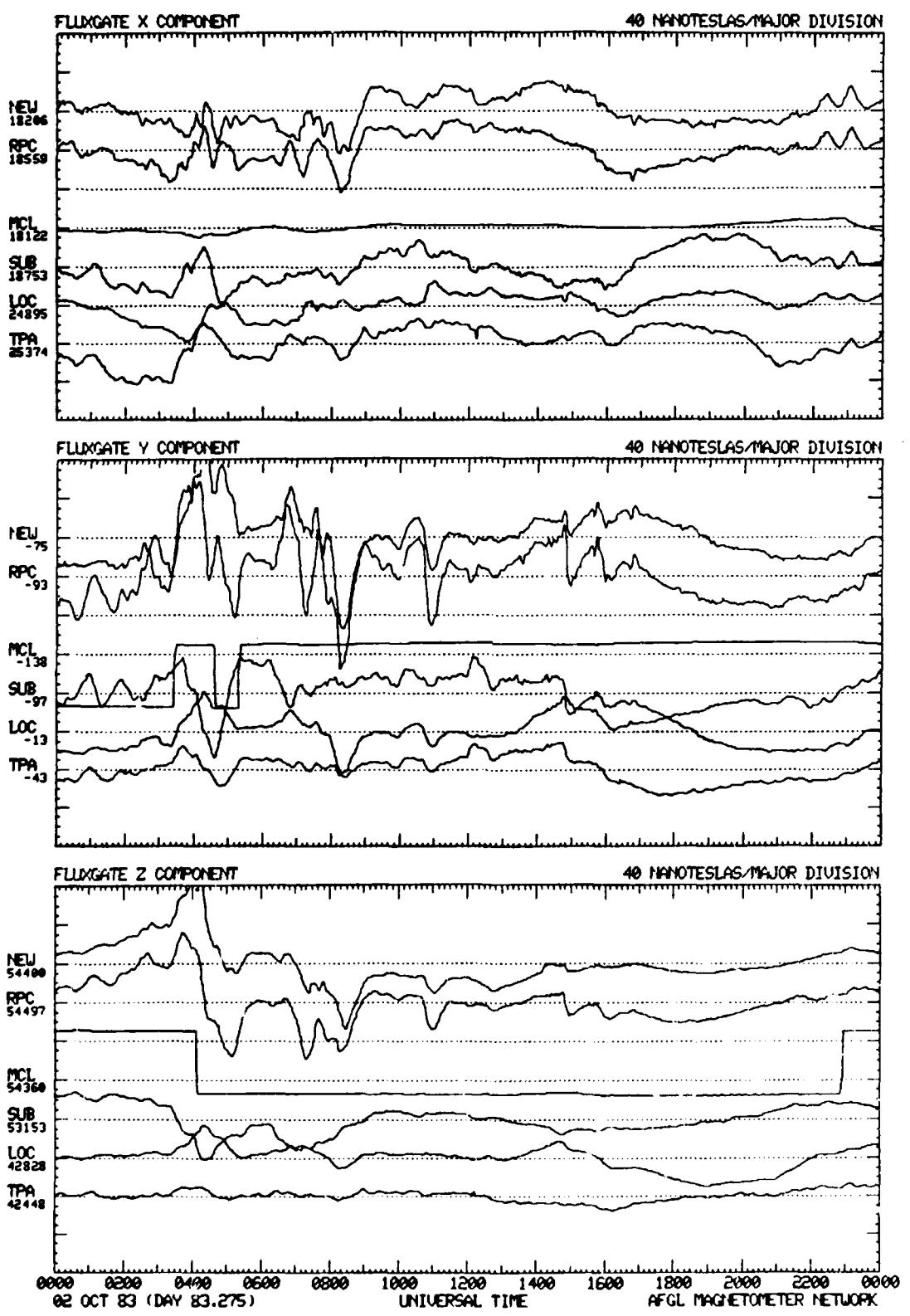
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 SEP 83 (DAY 83.270) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK











RD-A173 765

DAILY MAGNETOGRAMS FOR 1983 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(CU) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 21 MAR 85

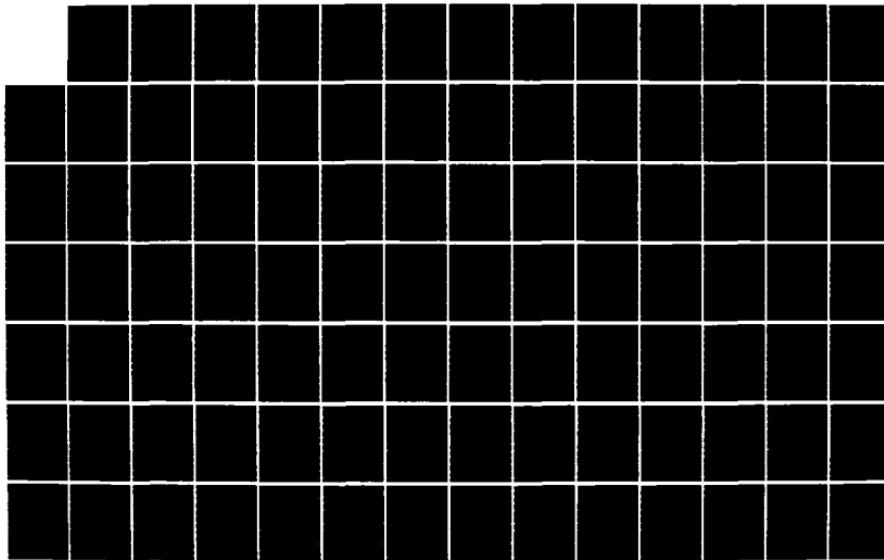
4/5

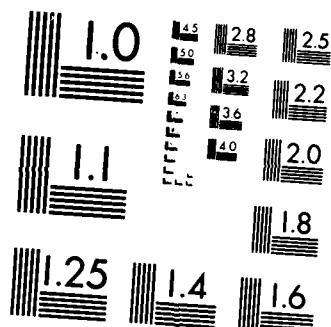
UNCLASSIFIED

AFGL-TR-85-0032

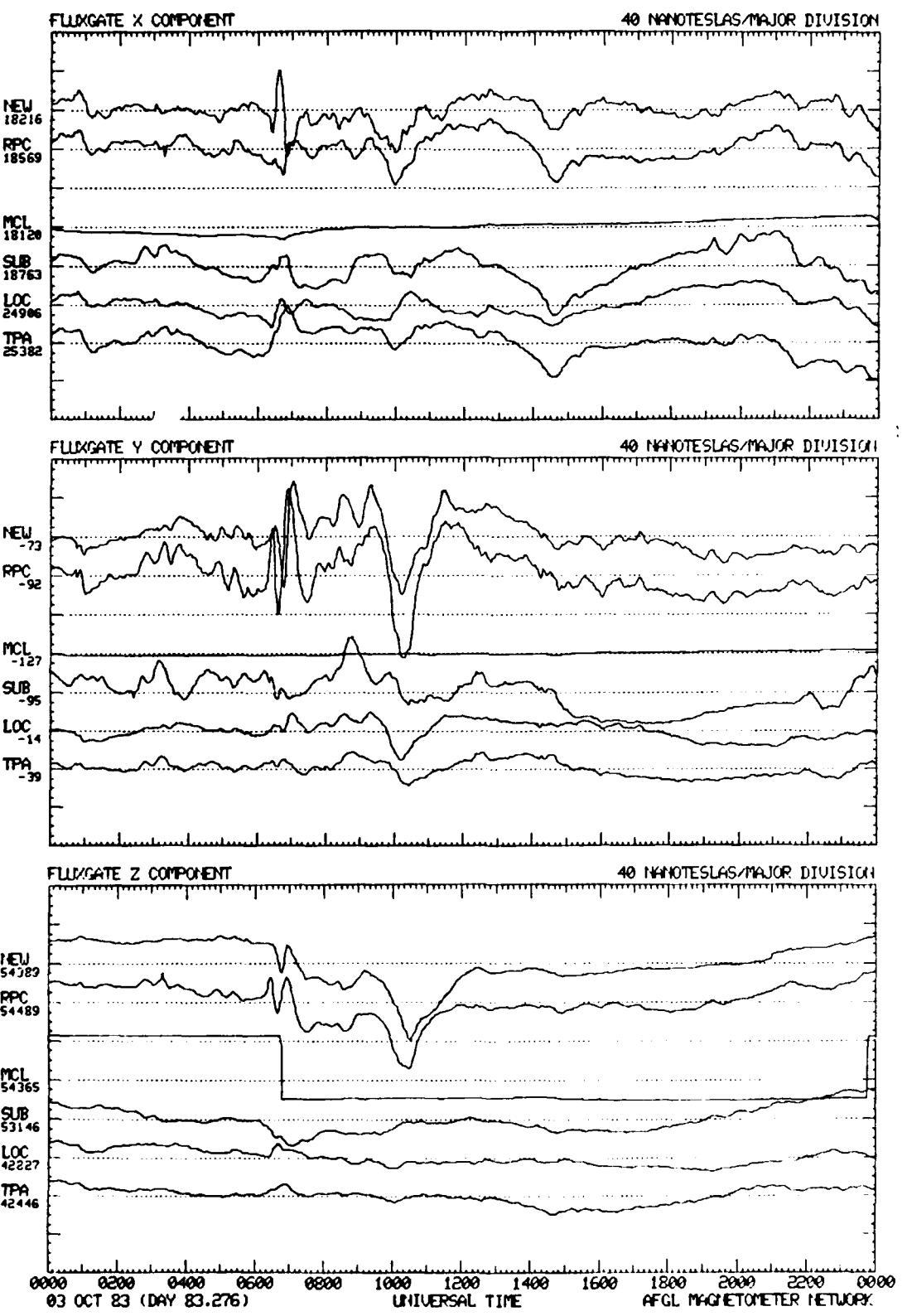
F/G 8/14

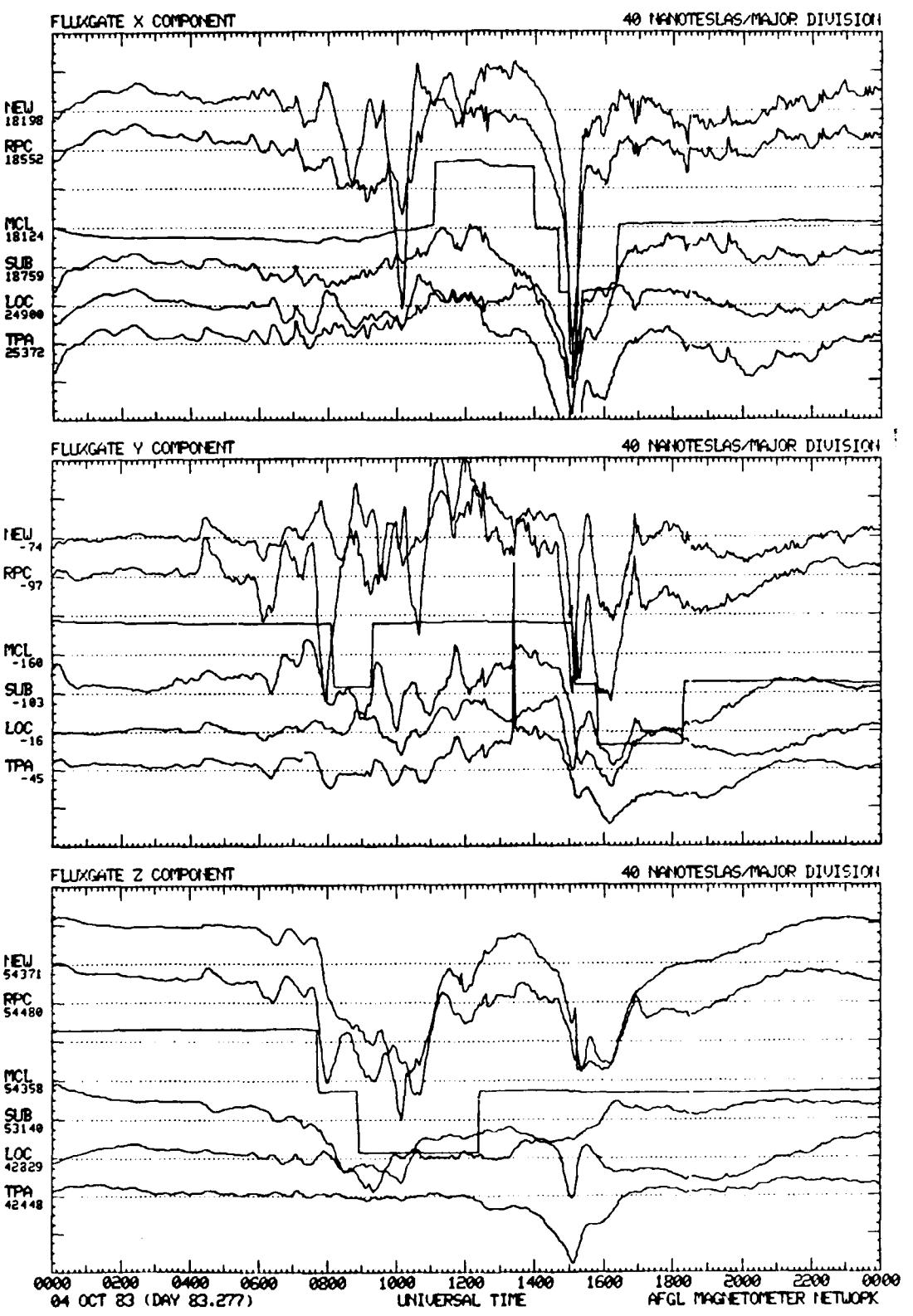
NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
12214
RPC
18566

MCL
18126
SUB
18764
LOC
24984
TPA
25388

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-75
RPC
-89

MCL
-17
SUB
-9
LOC
-11
TPA
-40

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

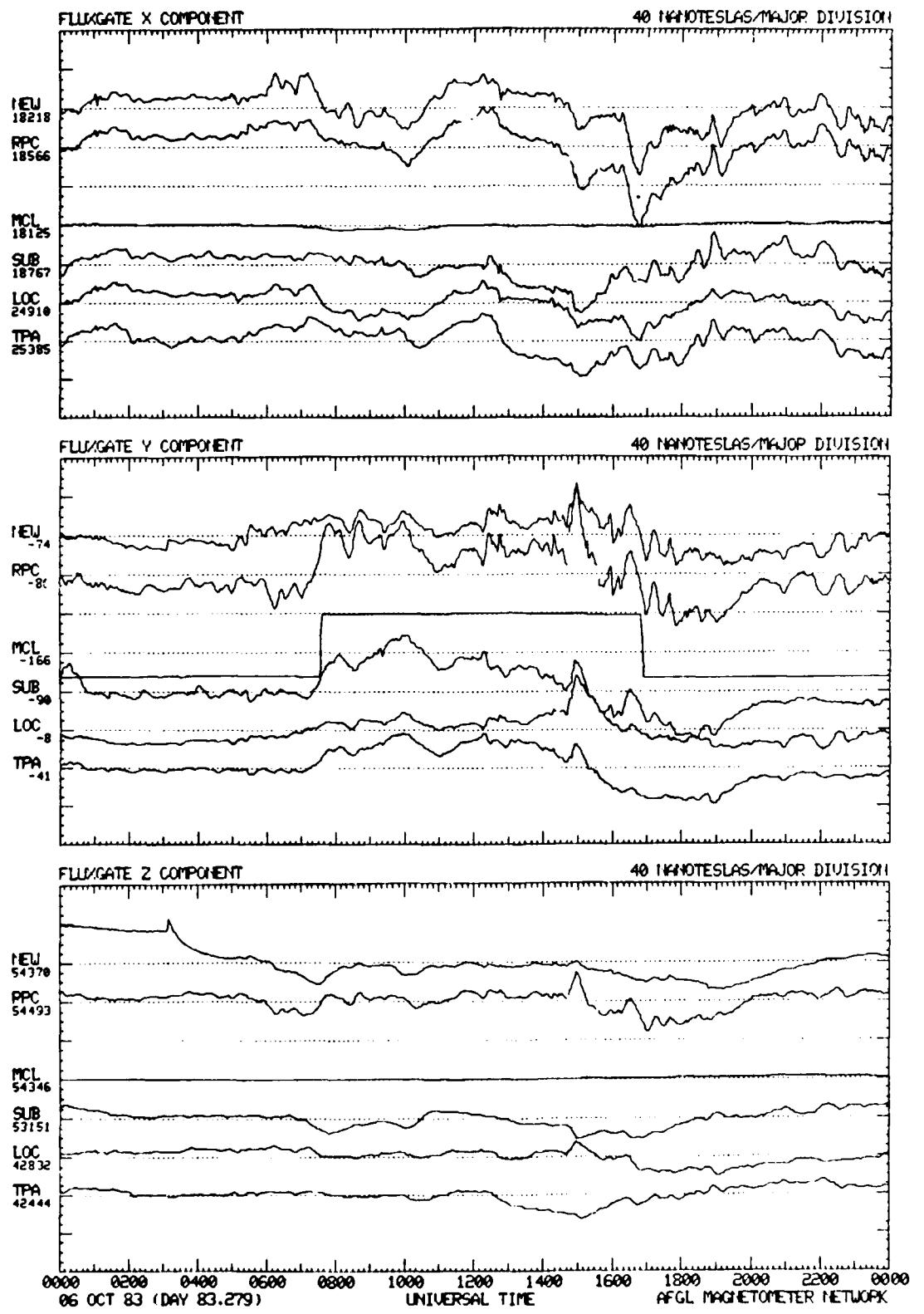
NEW
54492
RPC
5449

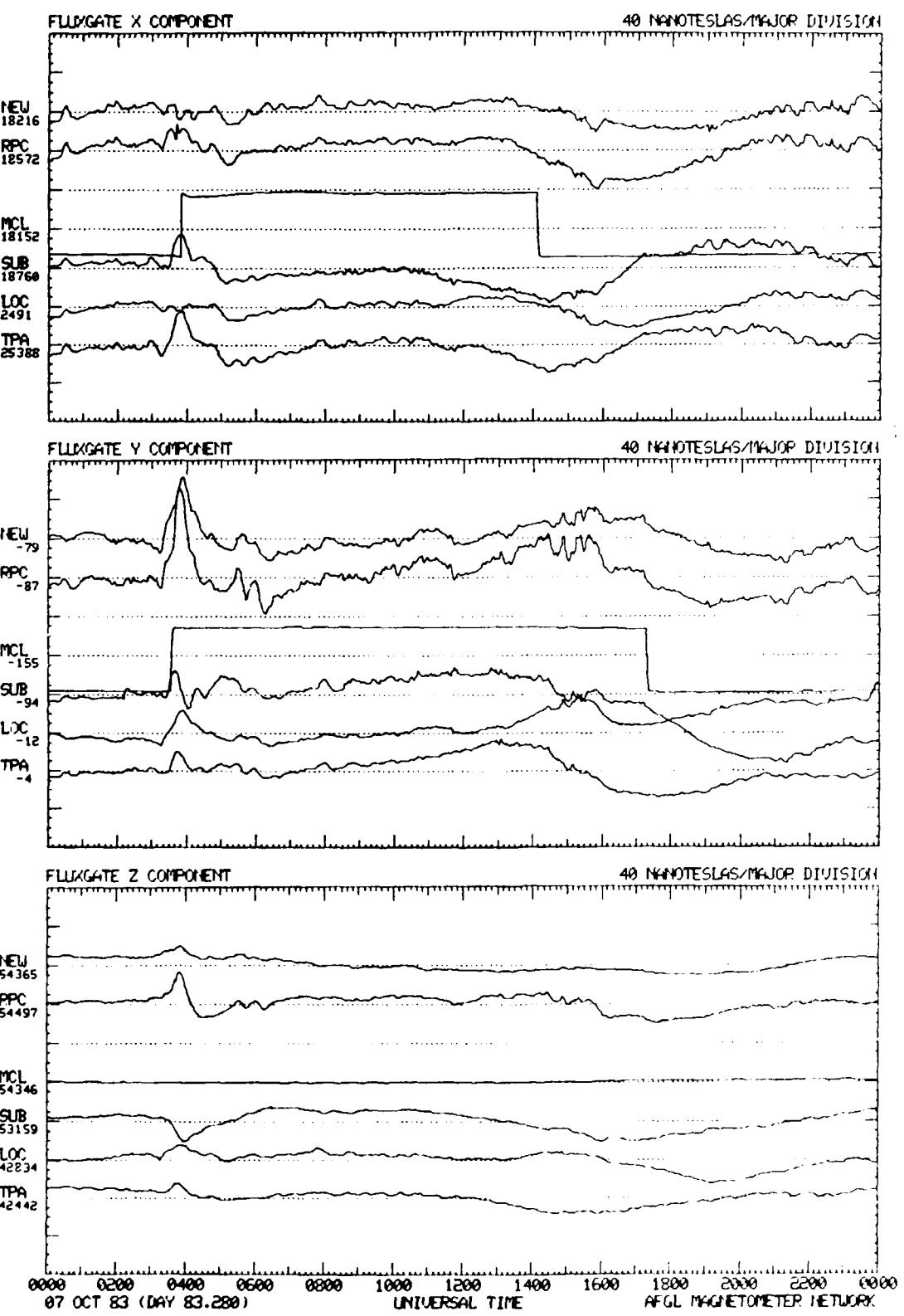
MCL
54347
SUB
53160
LOC
42834
TPA
42448

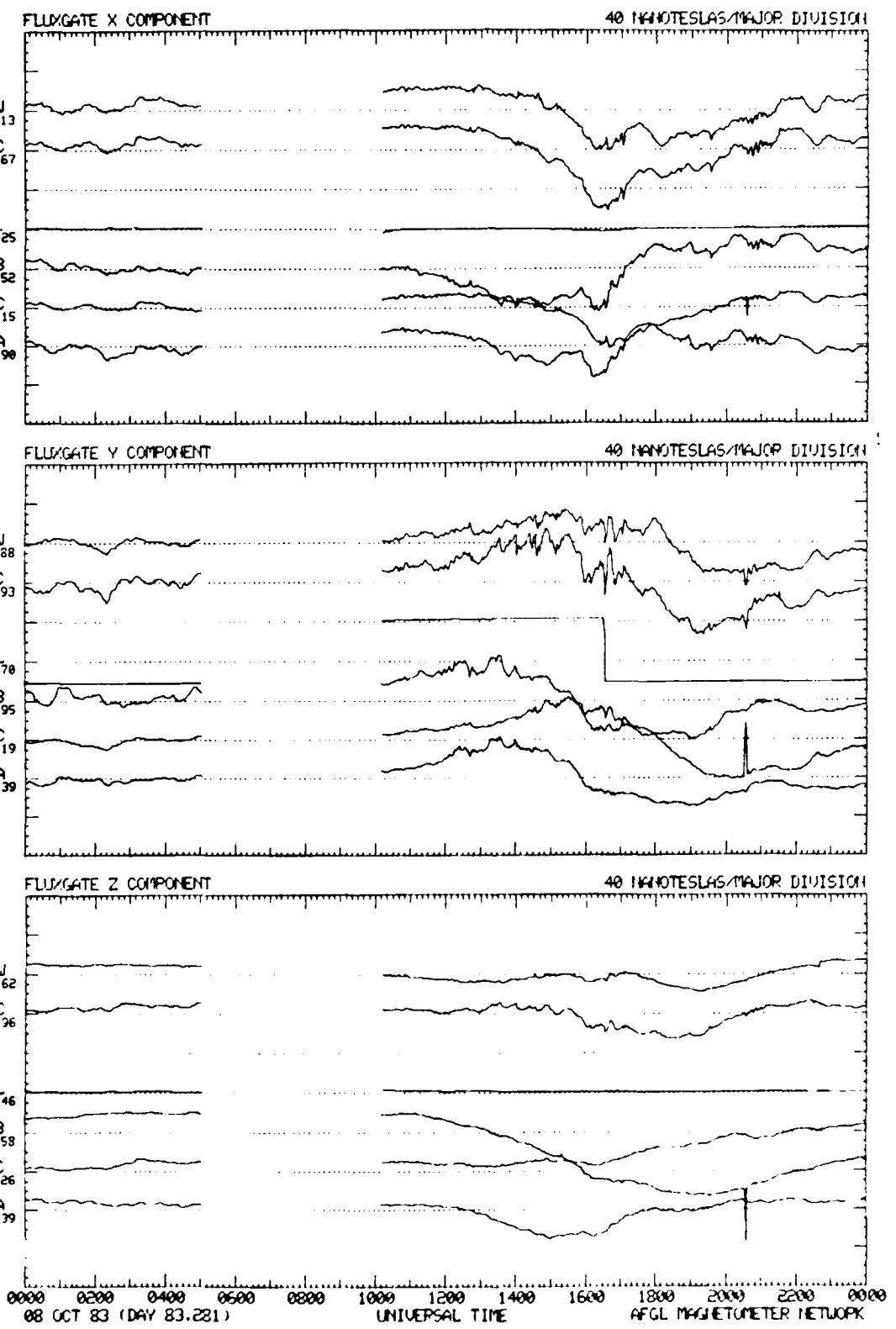
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 OCT 83 (DAY 83.278)

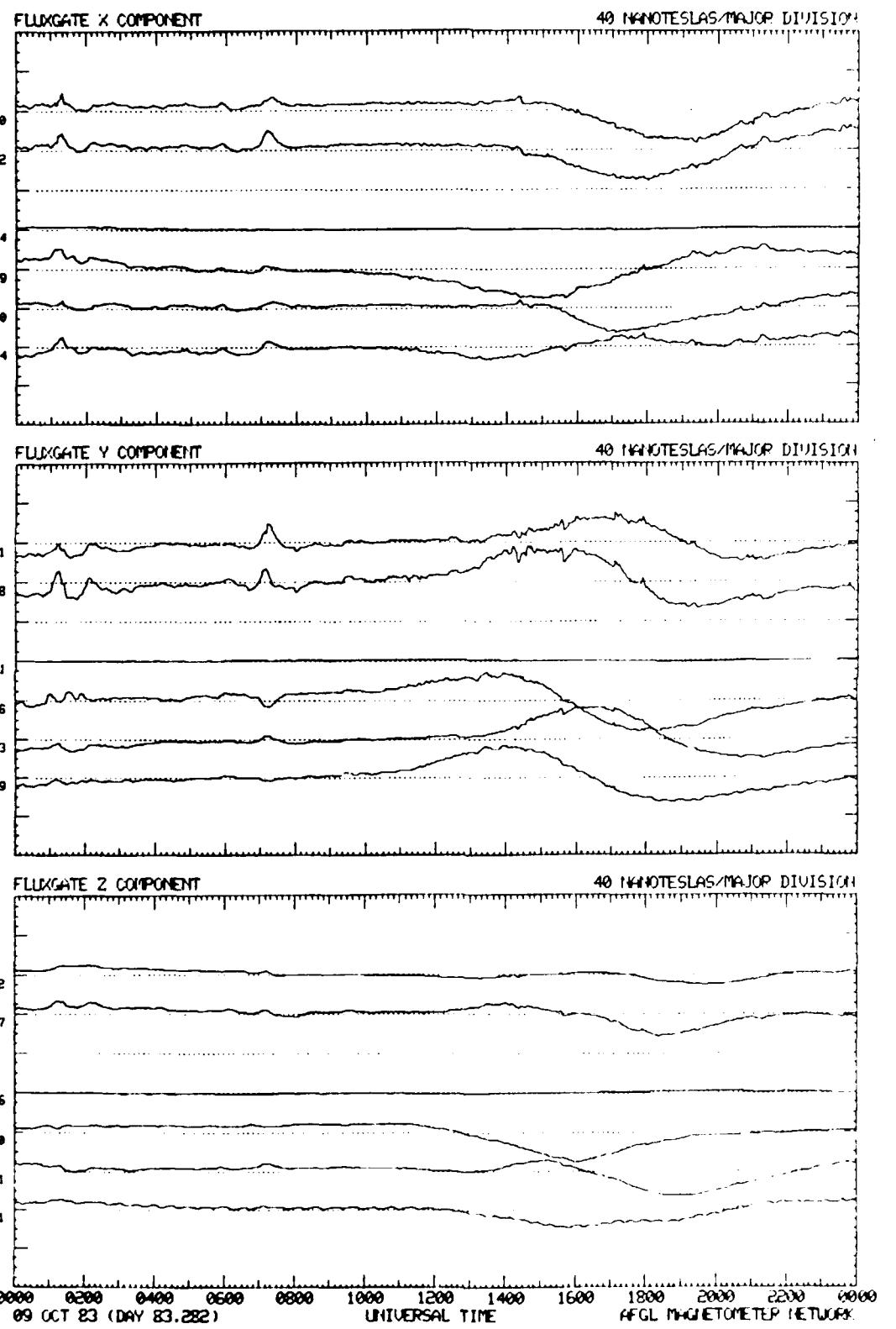
UNIVERSAL TIME

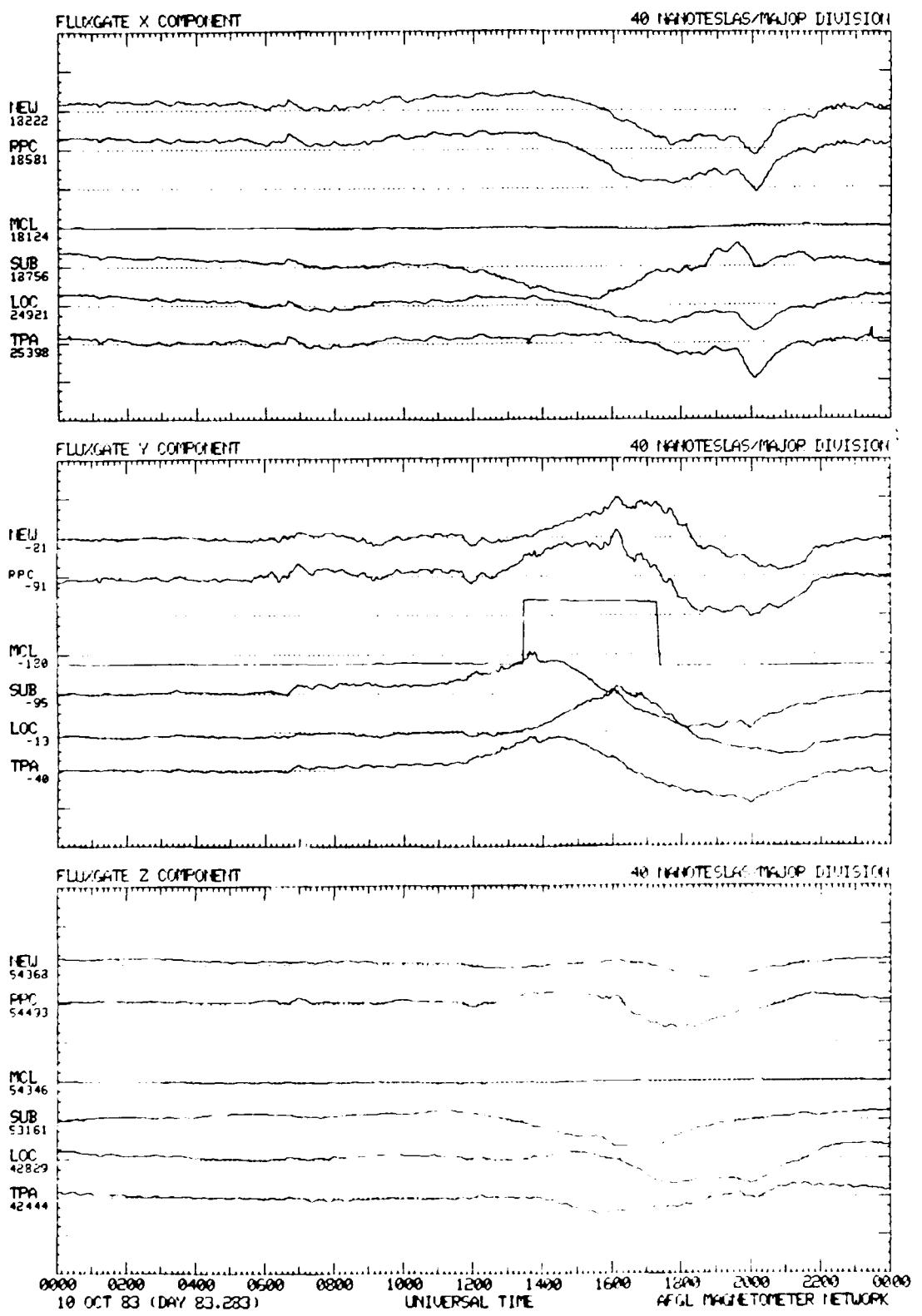
AFGL MAGNETOGRAM NETWORK











FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18221RPC
18576MCL
18123SUB
18756LOC
24925TPA
25400

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-20RPC
-34MCL
-19SUB
-93LOC
-13TPA
-35

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54363RPC
54493MCL
54347SUB
53155LOC
46231TPA
424410000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
11 OCT 83 (DAY 83.284) UNIVERSAL TIME

AGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18229RPC
18582MCL
18127SUB
1877LOC
24927TPA
28462

FLUXGATE Y COMPONENT

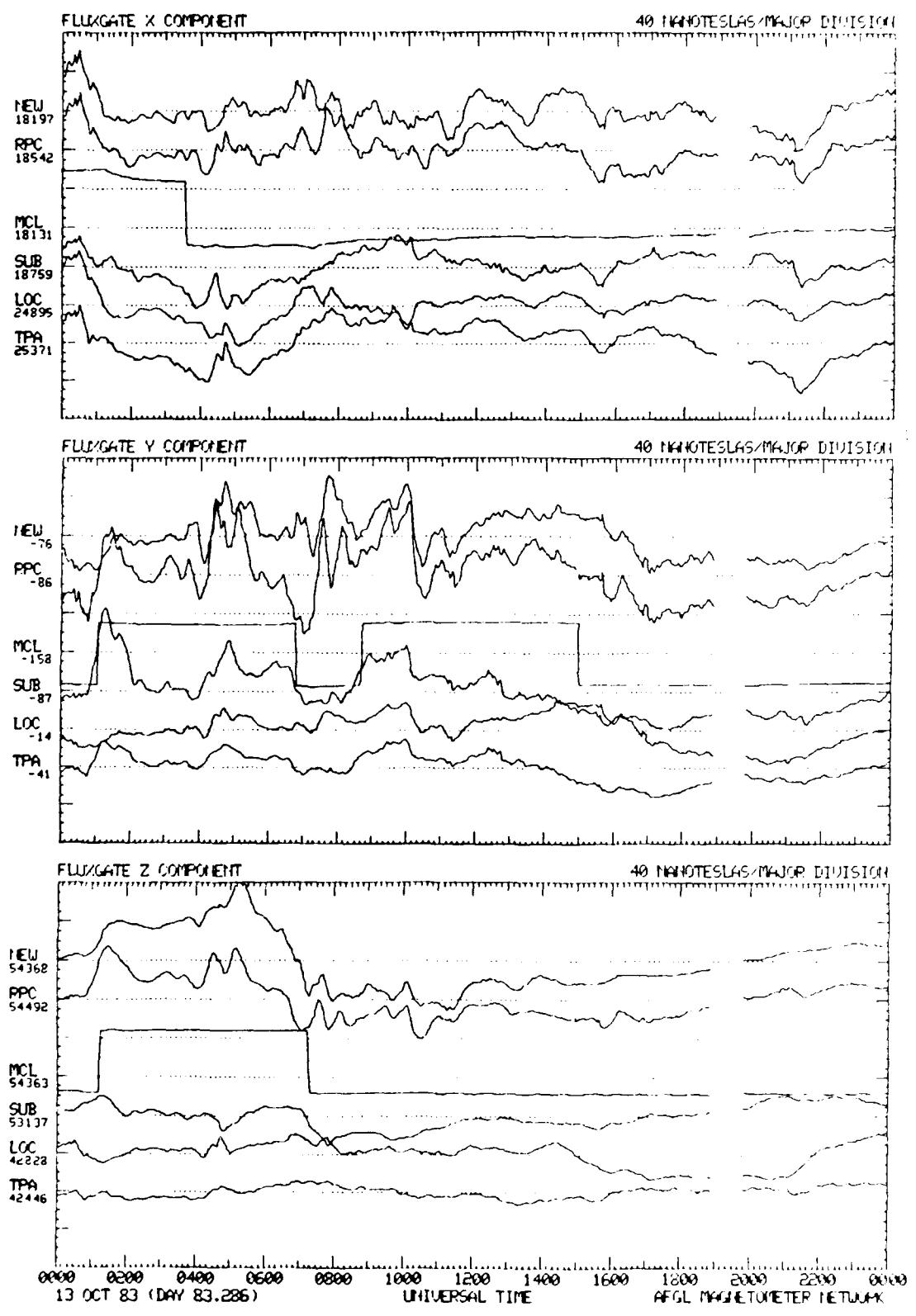
40 NANOTESLAS/MAJOR DIVISION

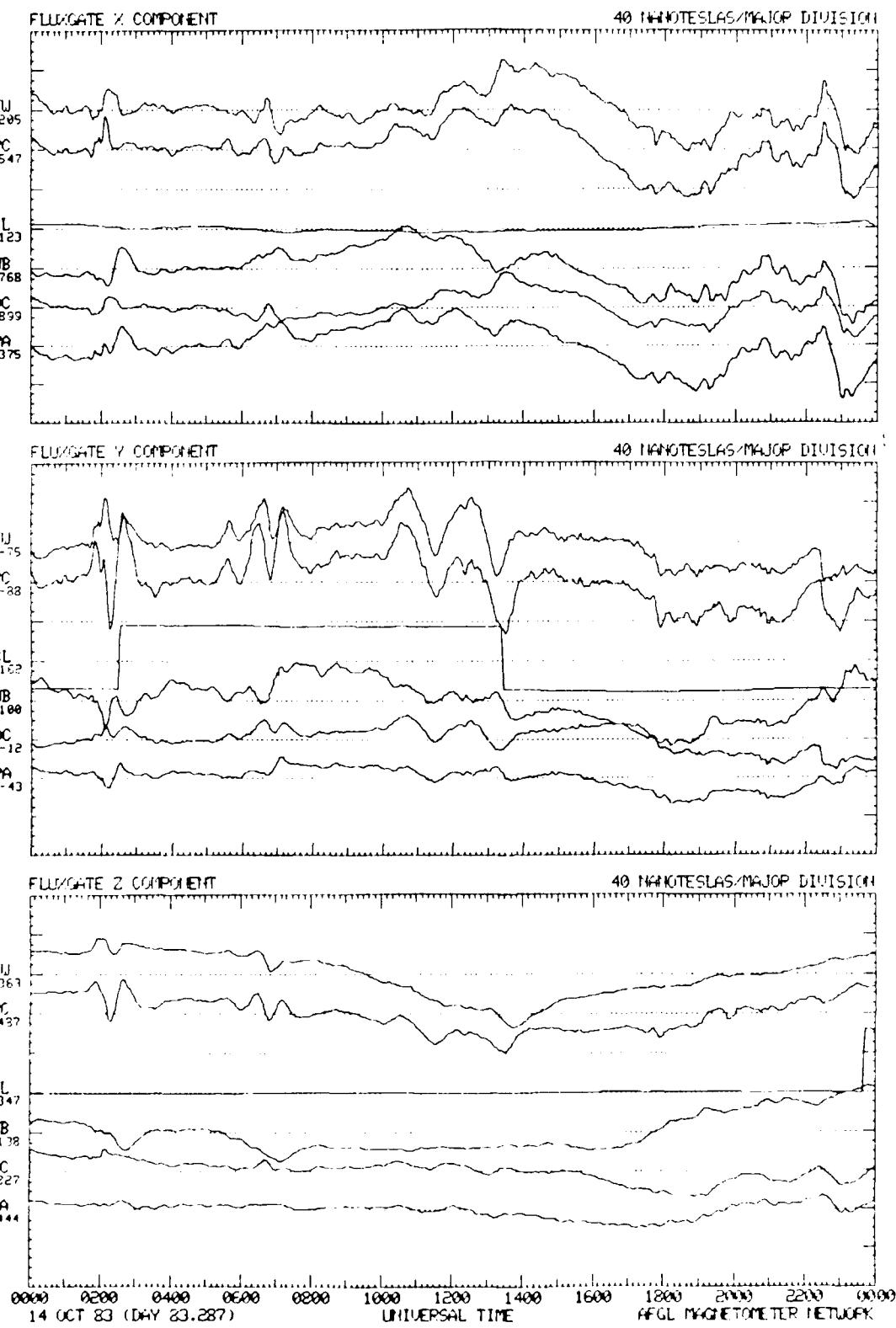
NEW
-24RPC
-108MCL
-19SUB
-92LOC
-16TPA
-42

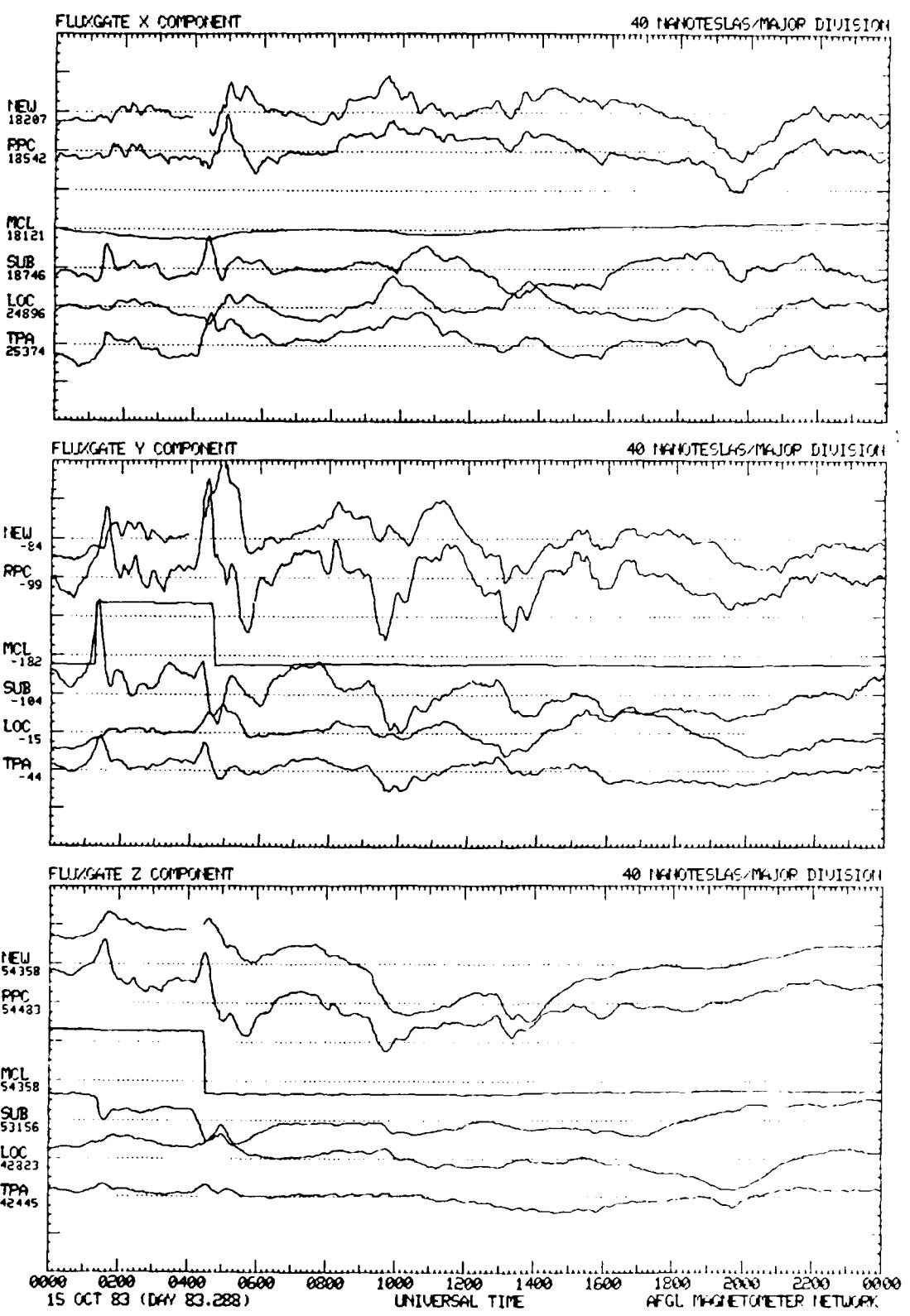
FLUXGATE Z COMPONENT

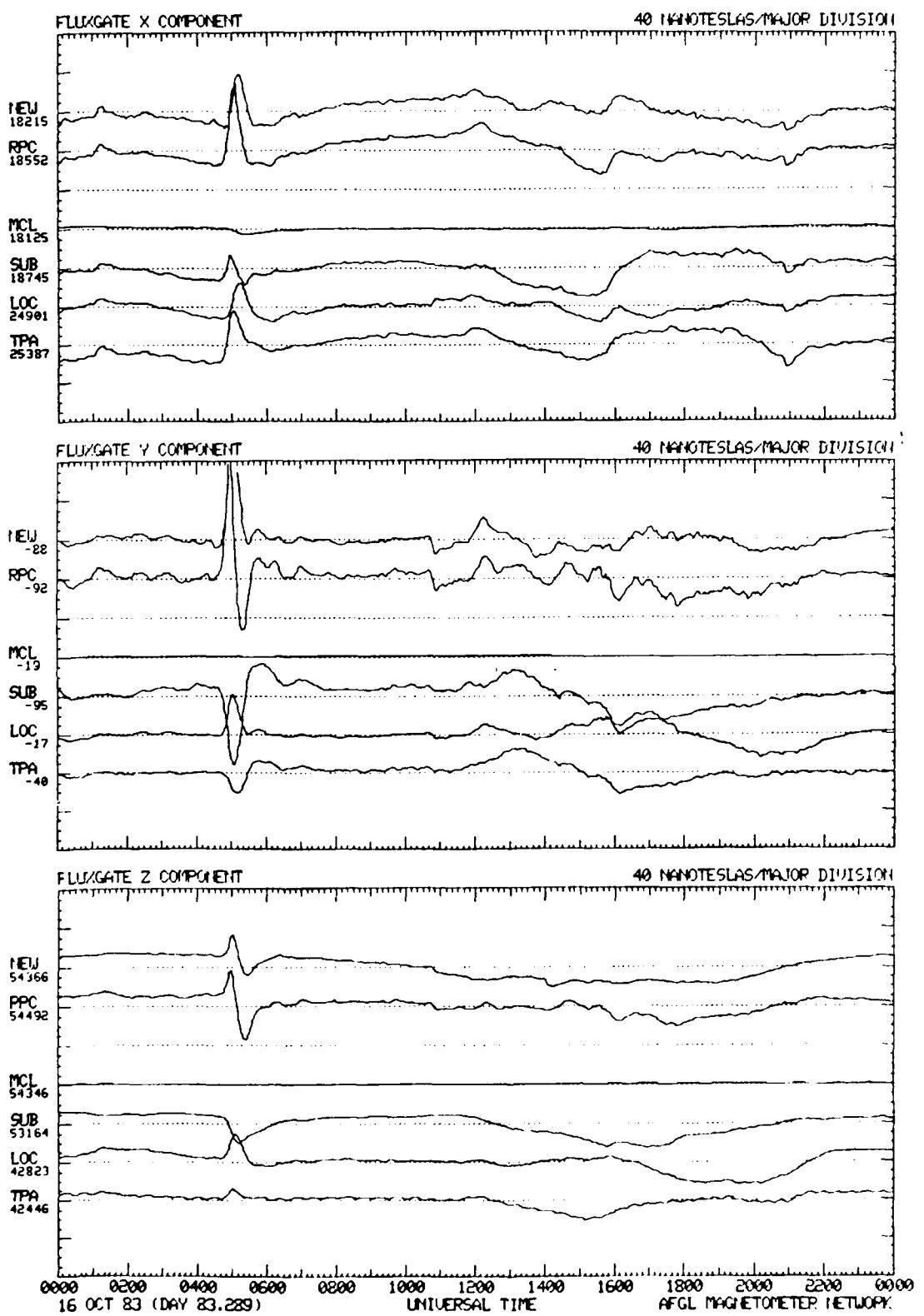
40 NANOTESLAS/MAJOR DIVISION

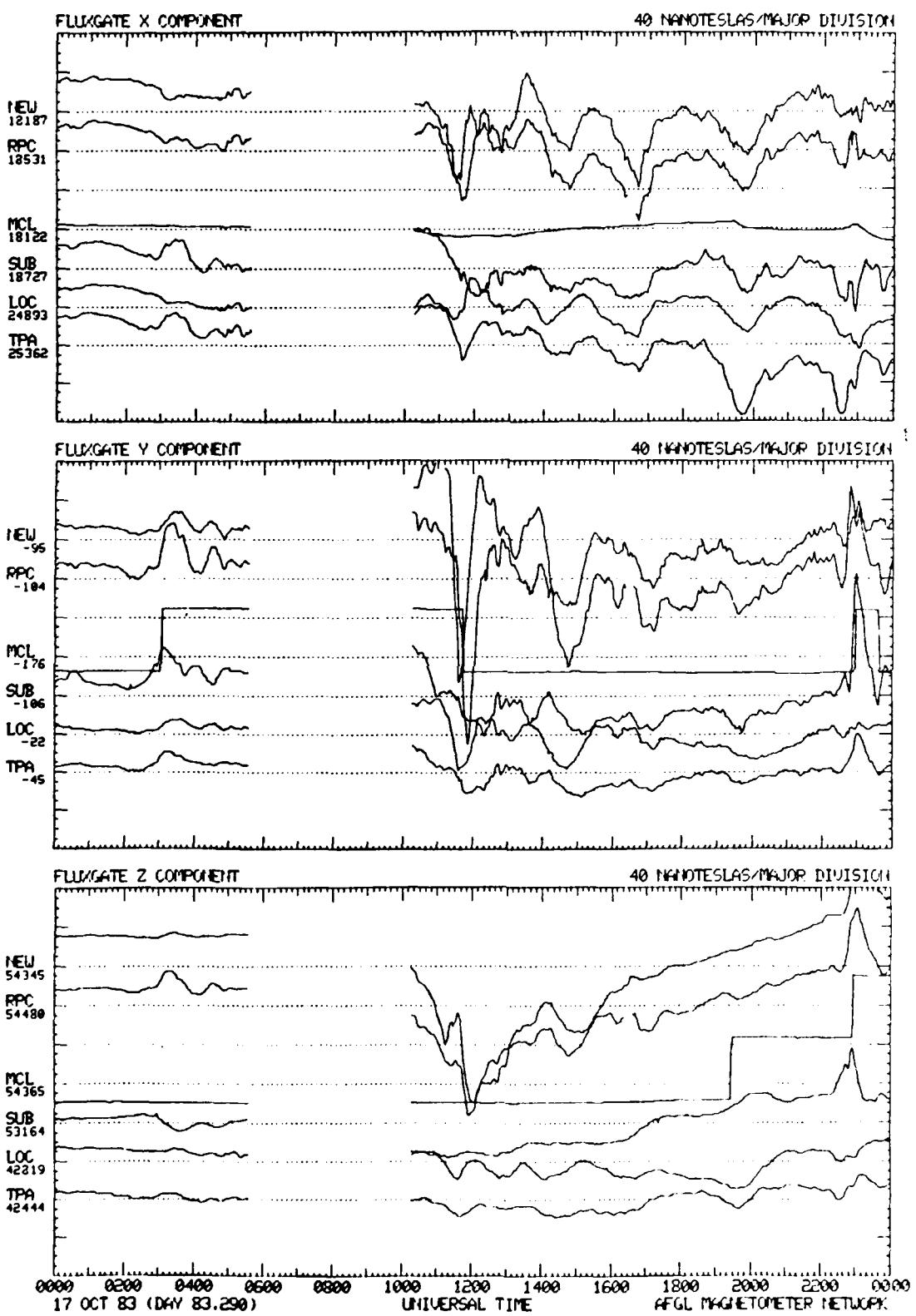
NEW
54362RPC
54490MCL
54347SUB
53145LOC
42330TPA
424380000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
12 OCT 83 (DAY 83.285) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

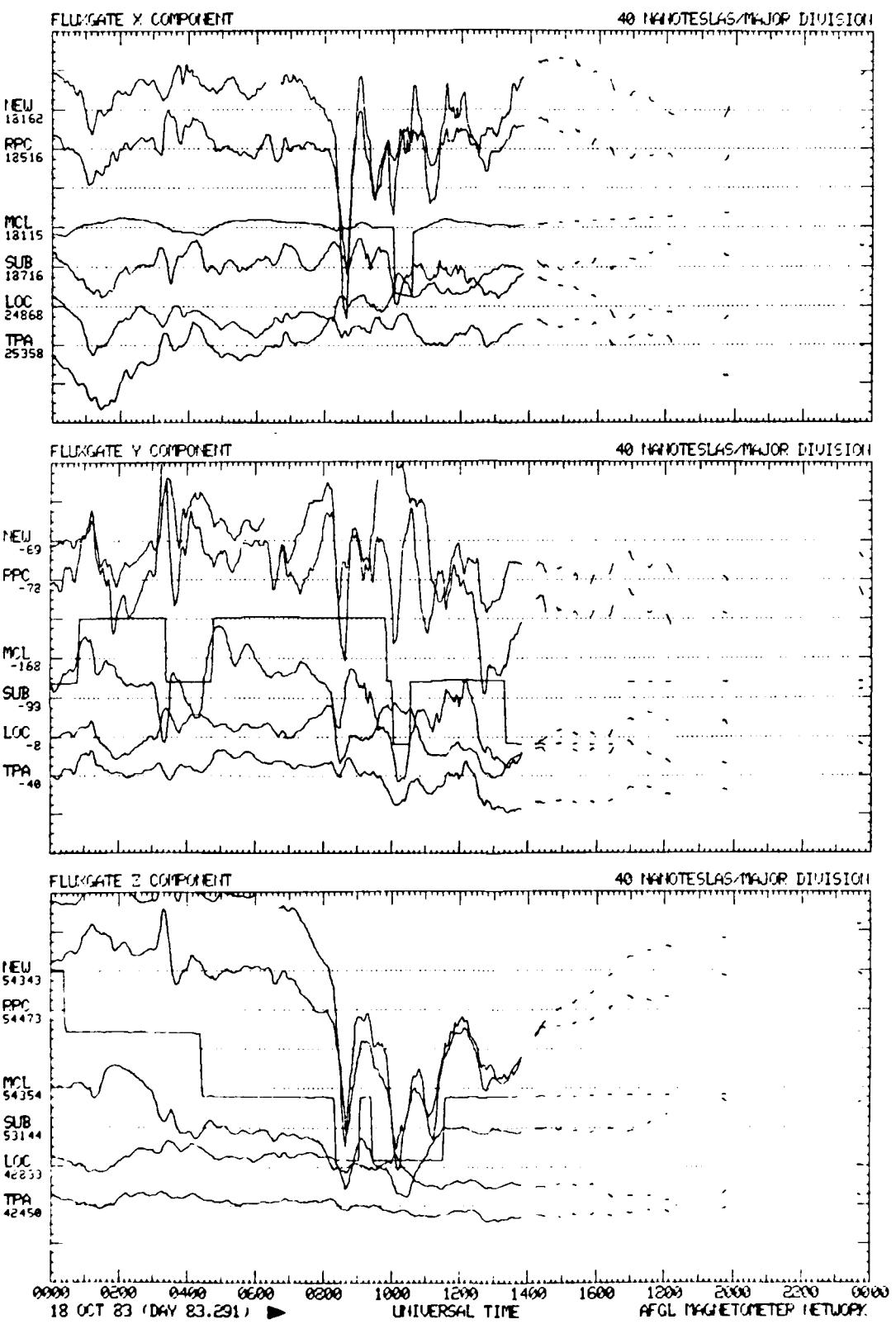












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18298RPC
18549MCL
18111SUB
18748LOC
24887TPA
25370

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-83RPC
-89MCL
-192SUB
-97LOC
-14TPA
-39

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54377RPC
54498MCL
54499SUB
53165LOC
42832TPA
424530000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 OCT 83 (DAY 83.292) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18213RPC
18541MCL
18118SUB
18733LOC
24888TPA
25374

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-69RPC
-86MCL
-193SUB
-102LOC
2TPA
-41

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54377RPC
54487MCL
54409SUB
53153LOC
42819TPA
424480000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
20 OCT 83 (DAY 83.293) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18225RPC
12561MCL
18111SUB
18738LOC
24917TPA
25395

FLUXGATE Y COMPONENT

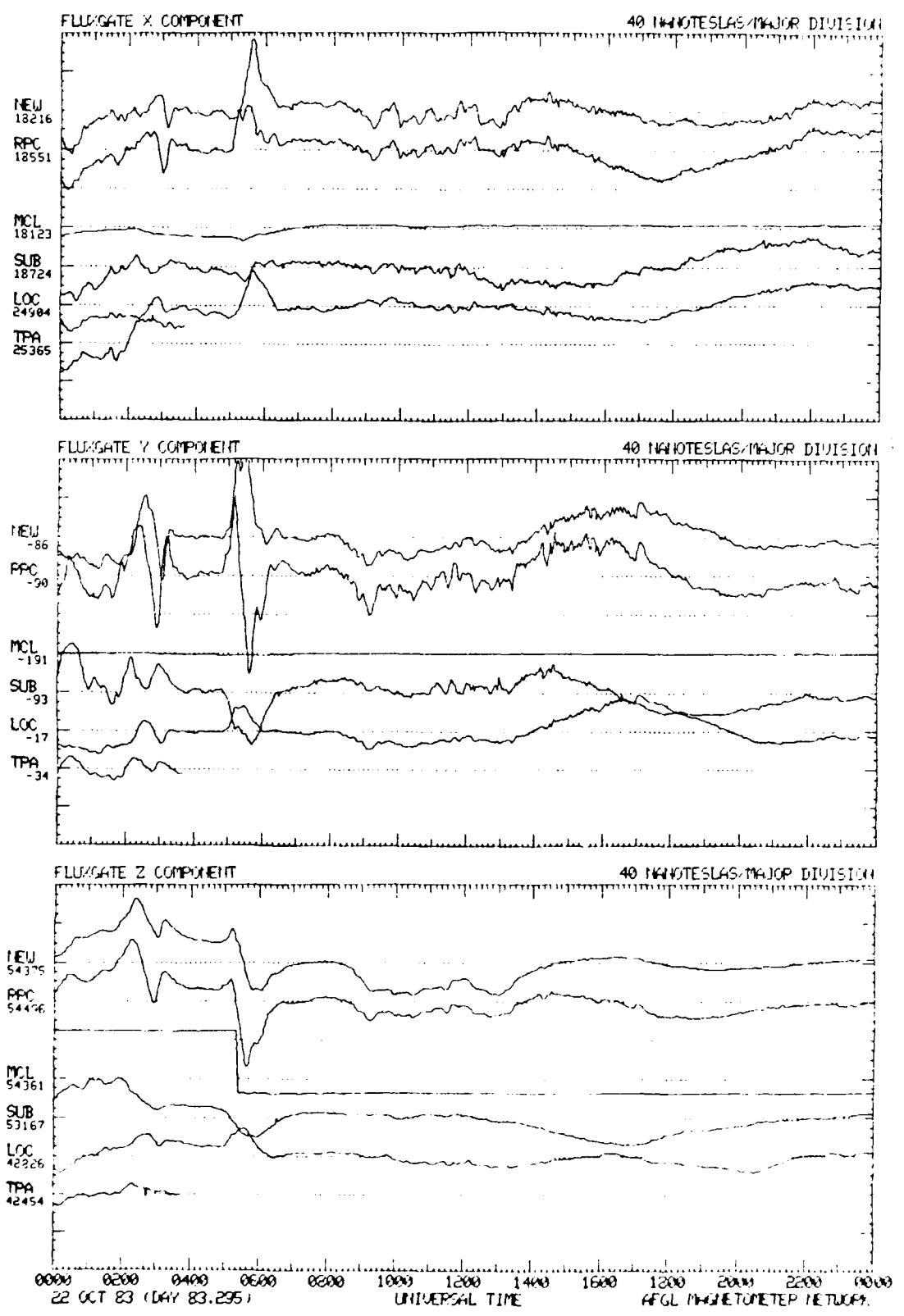
40 NANOTESLAS/MAJOR DIVISION

NEW
-86RPC
-90MCL
-183SUB
-94LOC
-14TPA
-39

FLUXGATE Z COMPONENT

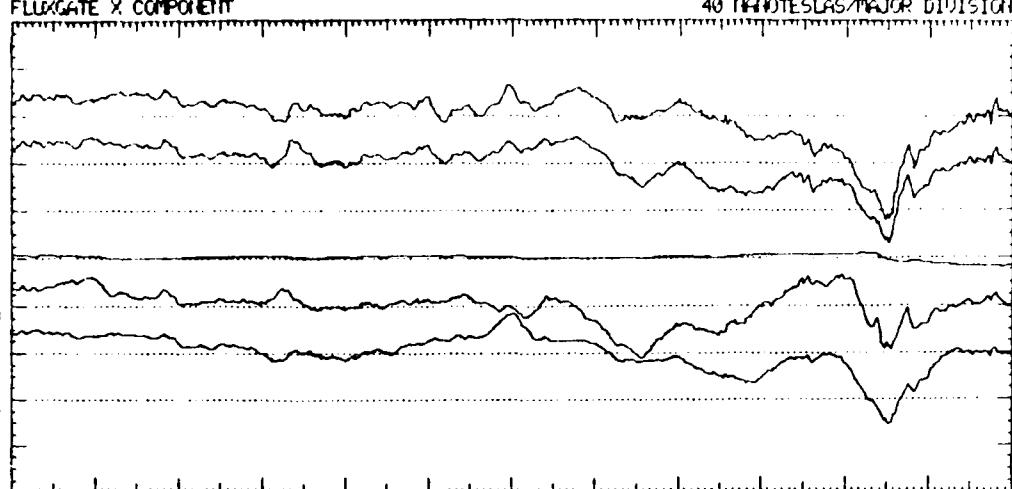
40 NANOTESLAS/MAJOR DIVISION

NEW
54370RPC
54493MCL
54499SUB
53162LOC
42825TPA
424450000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
21 OCT 83 (DAY 83.294) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



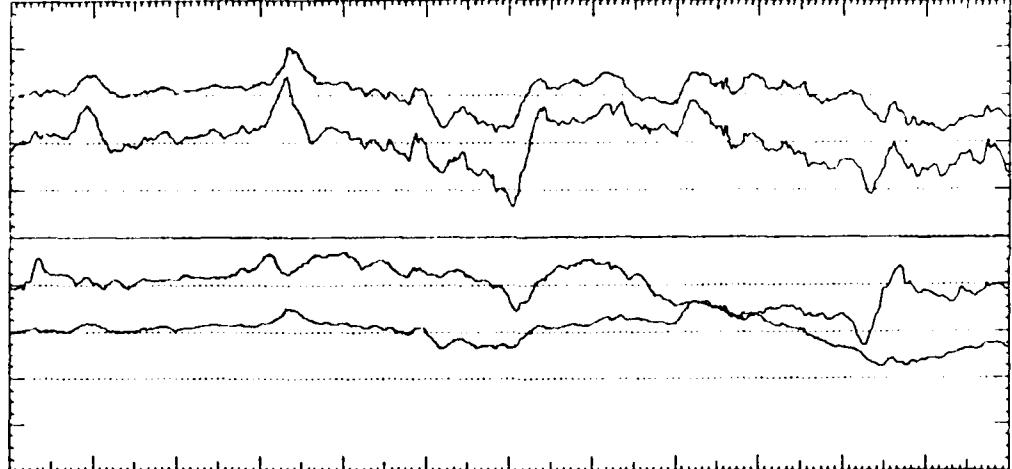
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13211RPC
18555MCL
18124SUB
18723LOC
24994TPA
25365

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

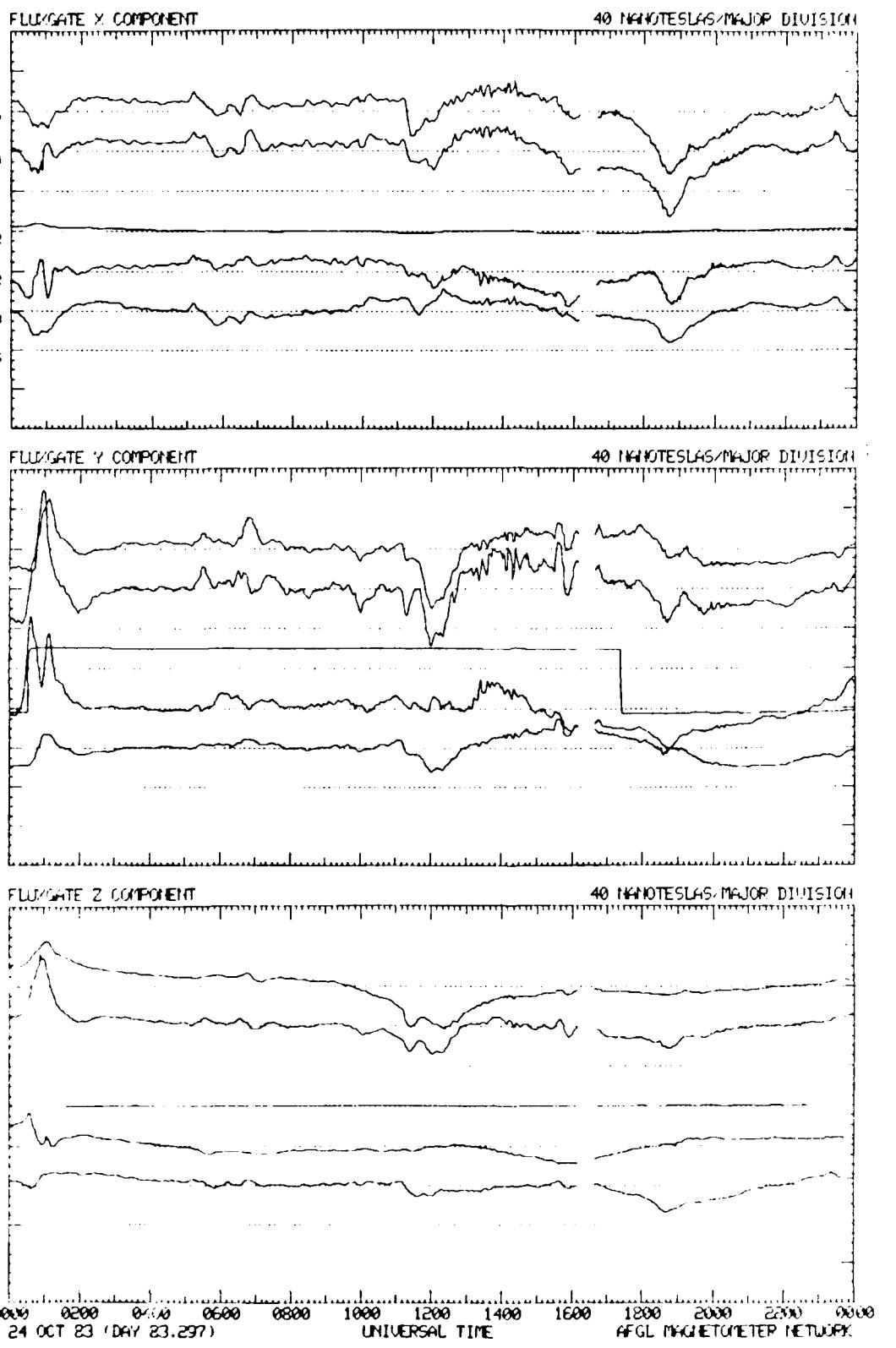
NEW
-88RPC
-93MCL
-191SUB
-96LOC
-21TPA
-34

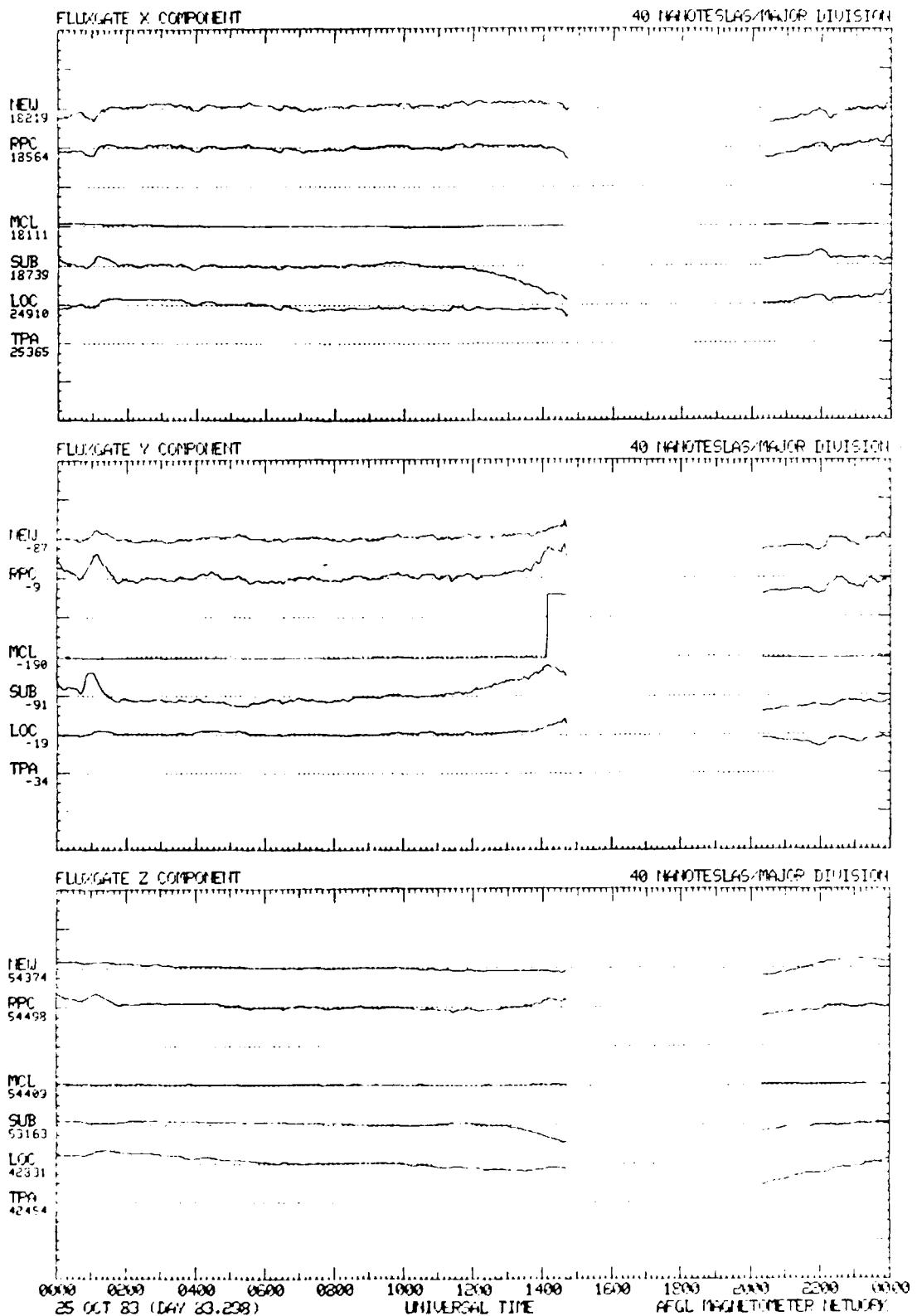
FLUXGATE Z COMPONENT

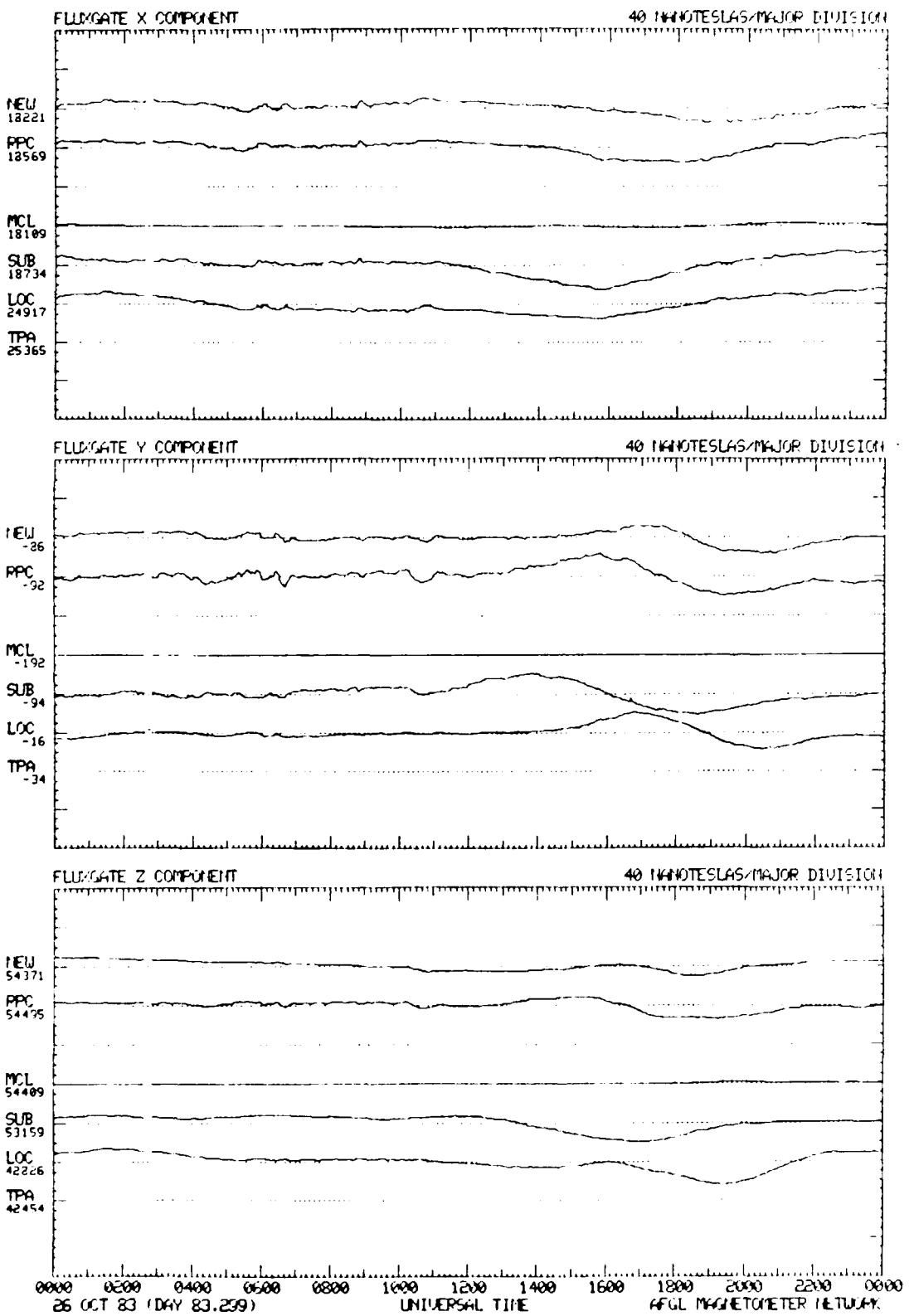
40 NANOTESLAS/MAJOR DIVISION

NEW
54375RPC
54496MCL
54355SUB
53166LOC
42227TPA
42454

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 OCT 83 (DAY 83.296) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18224
RPC
18578

MCL
18109
SUB
18737
LOC
24924
TPA
25365

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-26
RPC
-94

MCL
-192
SUB
-93
LOC
-18
TPA
-34

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54371
PPC
54493

MCL
54499
SUB
53156
LOC
42327
TPA
42454

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
27 OCT 83 (DAY 23,300) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18229RPC
18581MCL
18124SUB
18748LOC
24927TPA
25365

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-38RPC
-38MCL
-19SUB
-95LOC
-18TPA
-34

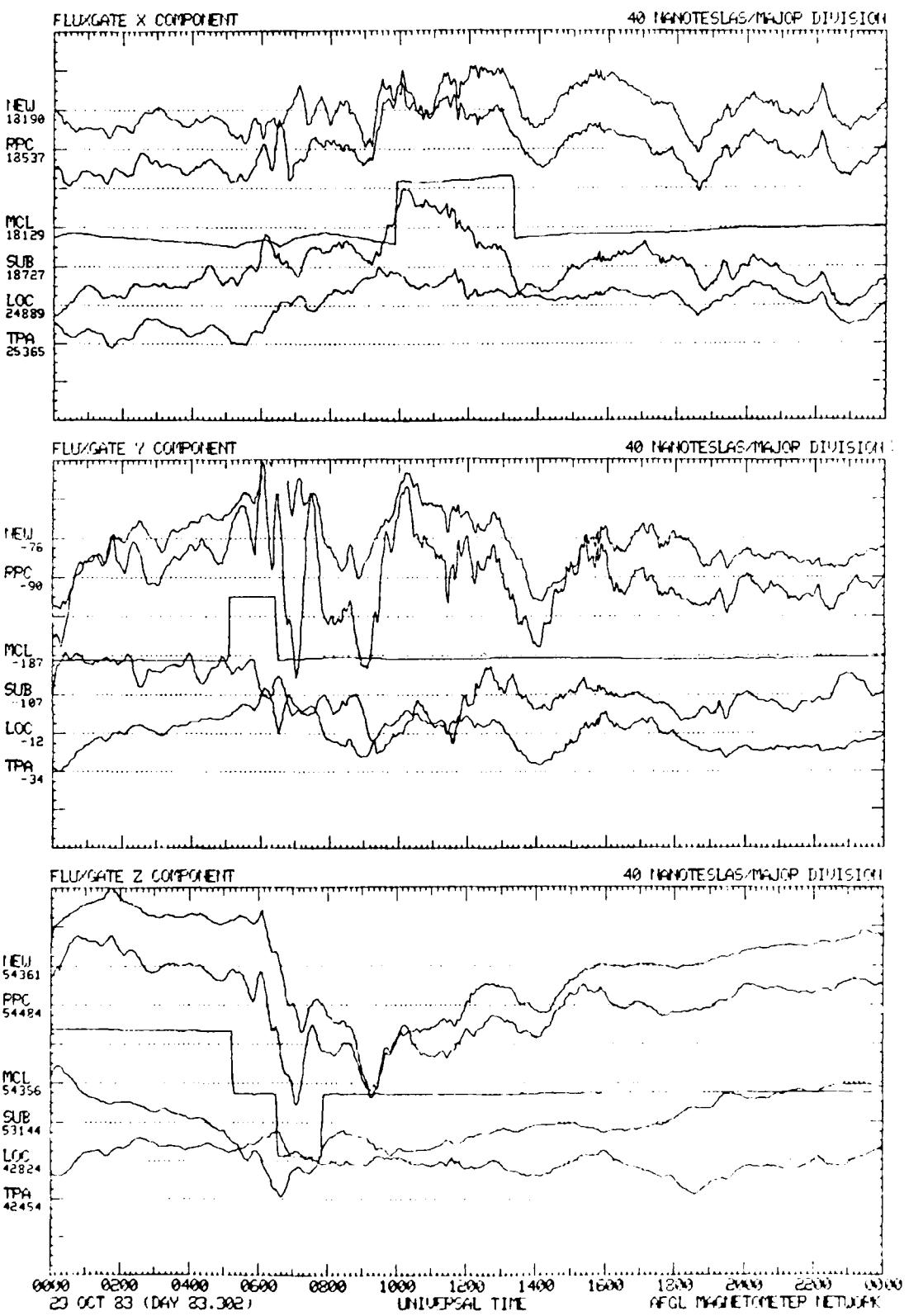
FLUXGATE Z COMPONENT

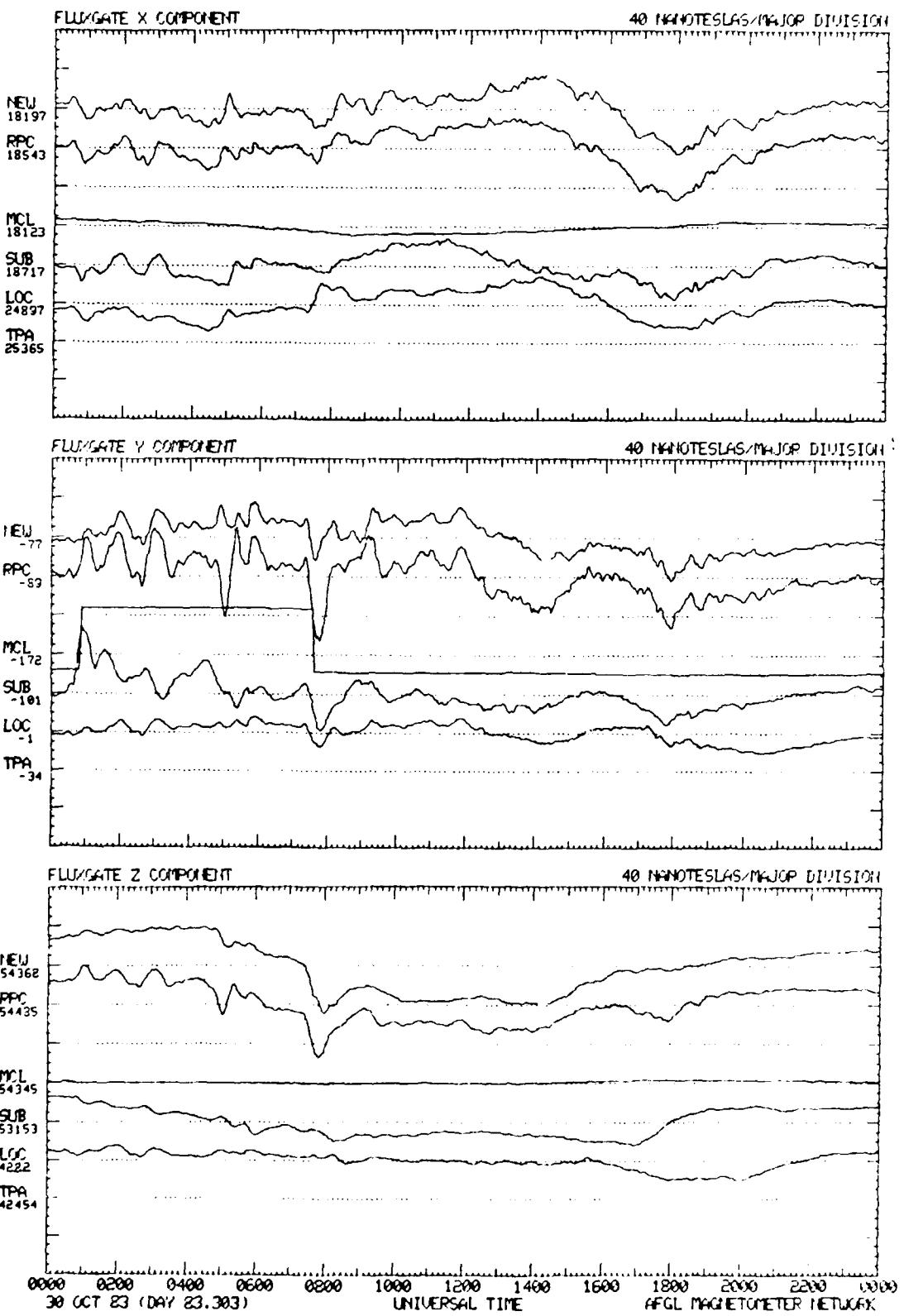
40 NANOTESLAS/MAJOR DIVISION

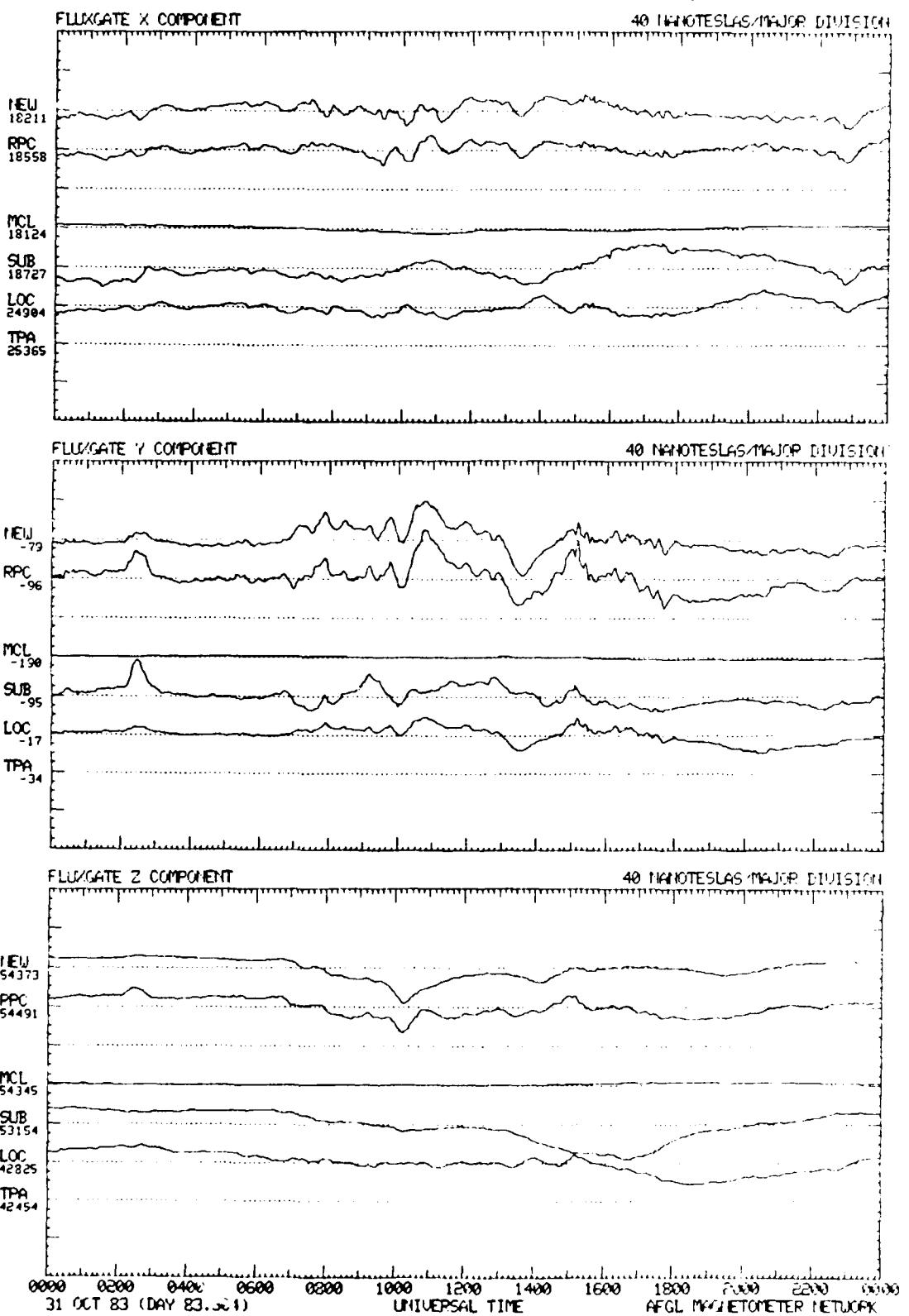
NEU
54366RPC
54439MCL
54411SUB
53152LOC
42322TPA
424540000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 OCT 83 (DAY 83.301)

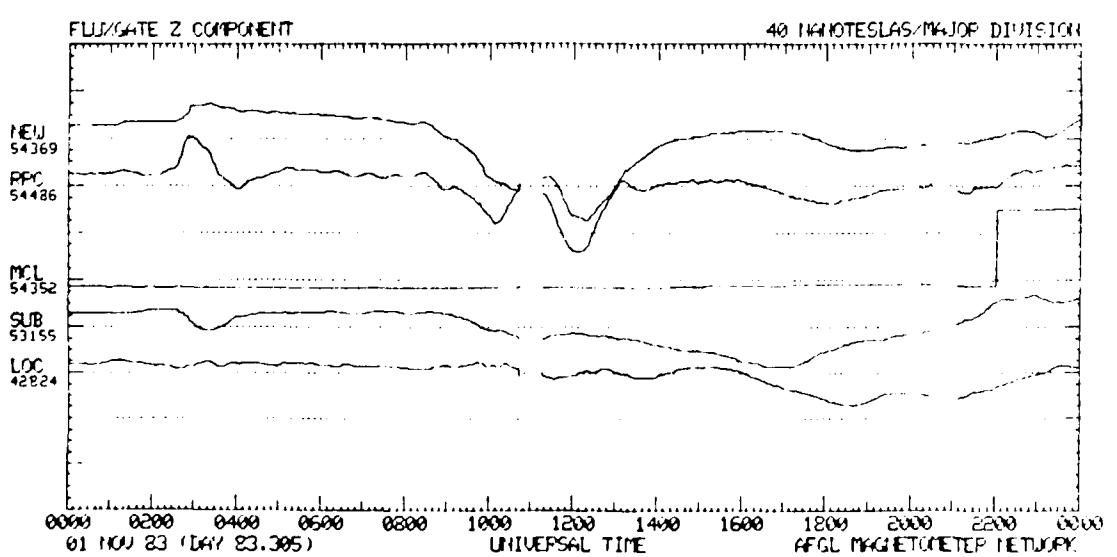
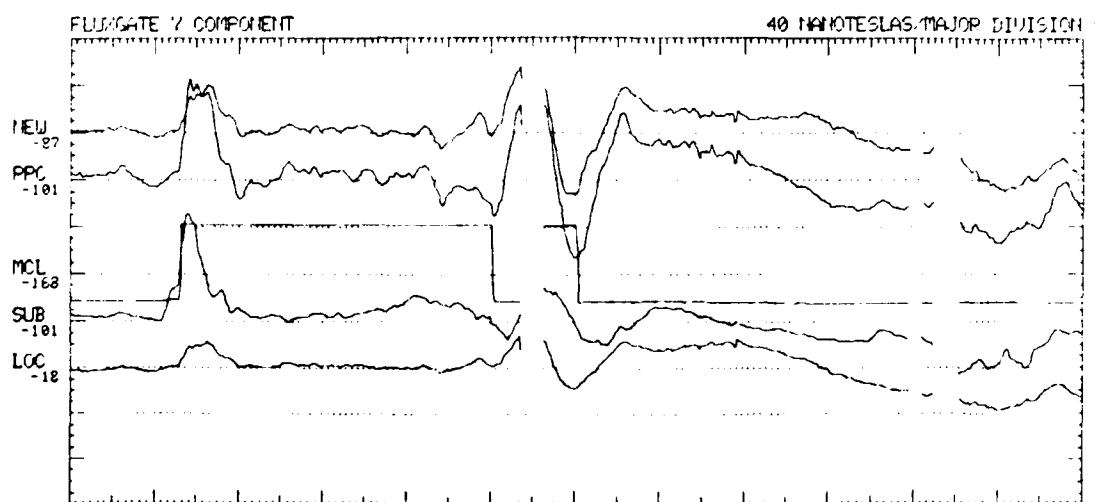
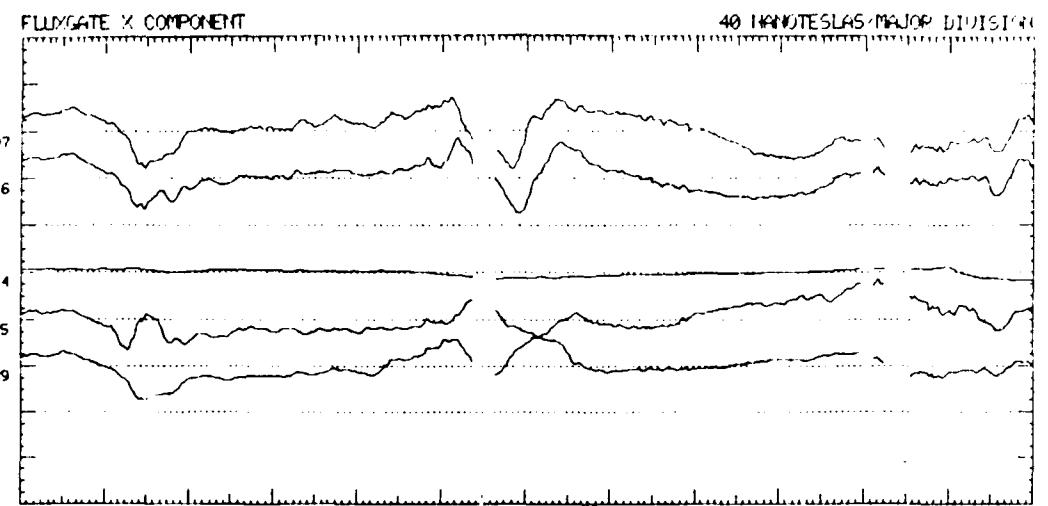
UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

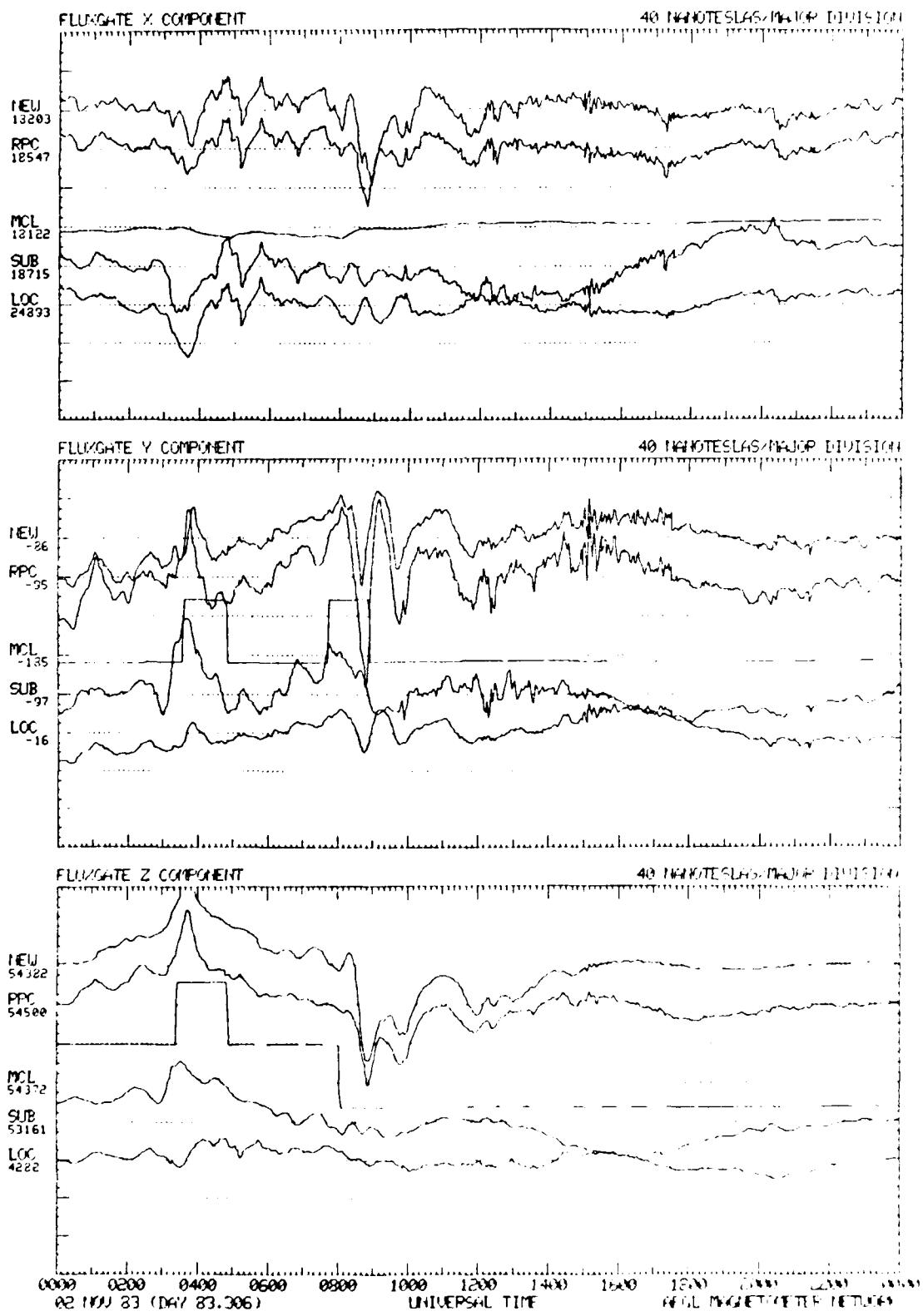








0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
01 NOV 87 (DAY 23.305) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU 12209
RPC 1855
CDS 17210
MCL 18123
SUB 1873
LOC 24903

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU -26
RPC -36
CDS -55
MCL -135
SUB -182
LOC -16

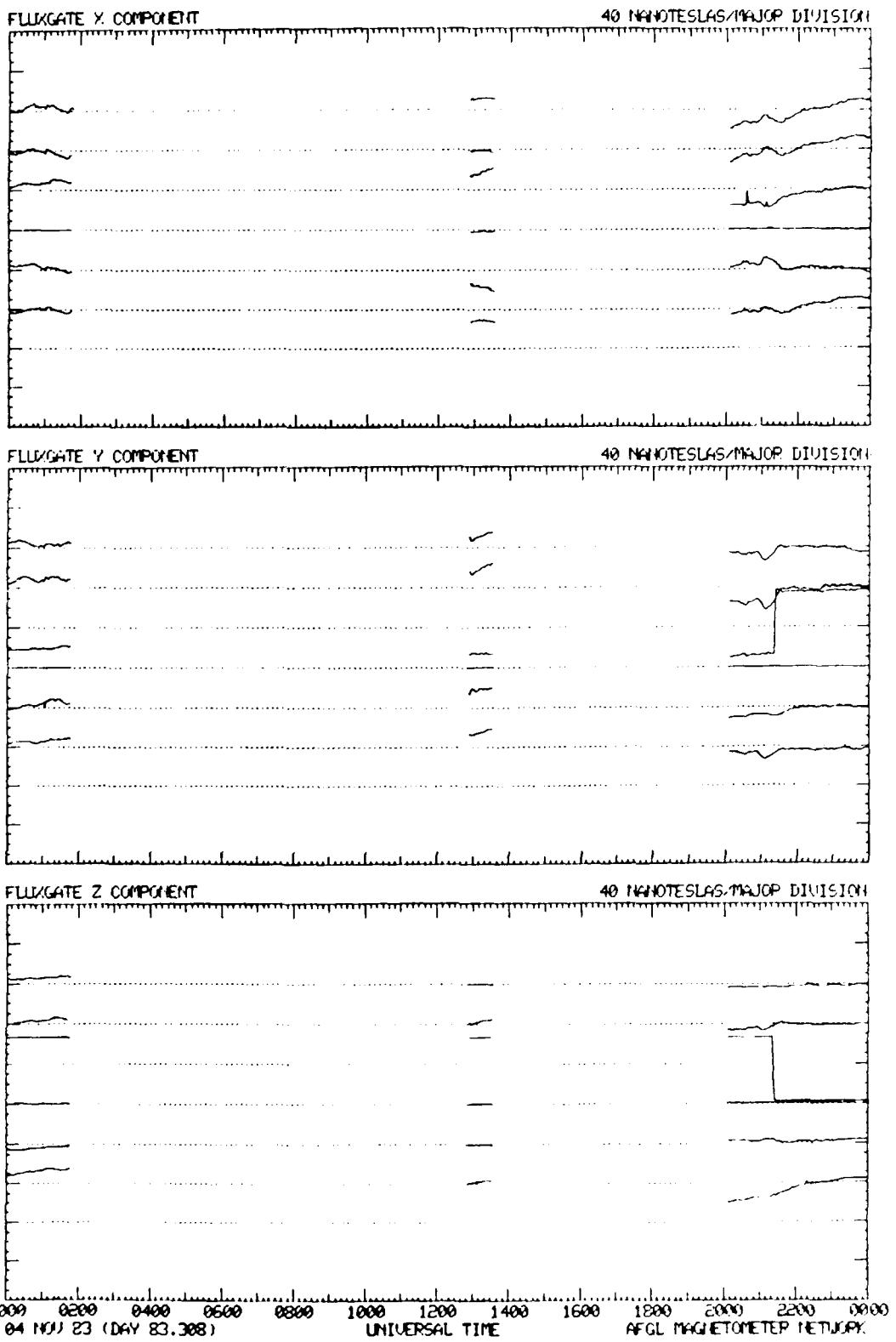
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU 54386
RPC 54497
CDS 55249
MCL

SUB 53150
LOC 42826

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
03 NOV 83 (DAY 23, 1983) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18224
RPC
18571
CDS
17229
MCL
18125
SUB
18729
LOC
24912

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-83
RPC
-28
CDS
-41
MCL
-129
SUB
-90
LOC
-15

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54383
RPC
54498
CDS
55126
MCL
54344
SUB
53158
LOC
42825

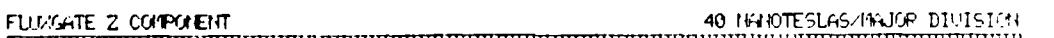
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
05 NOV 83 (DAY 83.309) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



NEU
12217
RPC
18539
CDS
17232
MCL
18123
SUB
18713
LOC
24905



NEU
-57
RPC
-20
CDS
-53
MCL
-123
SUB
-114
LOC
15



NEU
54325
RPC
54434
CDS
55126
MCL
54347
SUB
53144
LOC
42821

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
06 NOV 23 (DAY 23.310) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18217RPC
18539CDS
17232MCL
18123SUB
18713LOC
24905

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-57PPC
-28CDS
-53MCL
-128SUB
-114LOC
15

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54385PPC
54484CDS
55186MCL
54347SUB
53144LOC
42821

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
07 NOV 83 (DAY 83.311) UNIVERSAL TIME AFGL MAGNETOETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NET
13135
RPC
18529
CDS
17193
MCL
18128
SUB
18724
LOC
24883

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NET
-102
RPC
-189
CDS
-35
MCL
-192
SUB
-188
LOC
-30

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NET
54375
RPC
54502
CDS
55186
MCL
54347
SUB
53161
LOC
42810

0000 0400 0800 0200 1000 1200 1400 1600 1800 2000 2200 0000
09 NOV 23 (DAY 83.312) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18198
RPC
18521
CDS
17158
MCL
18117
SUB
18716
LOC
24884

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

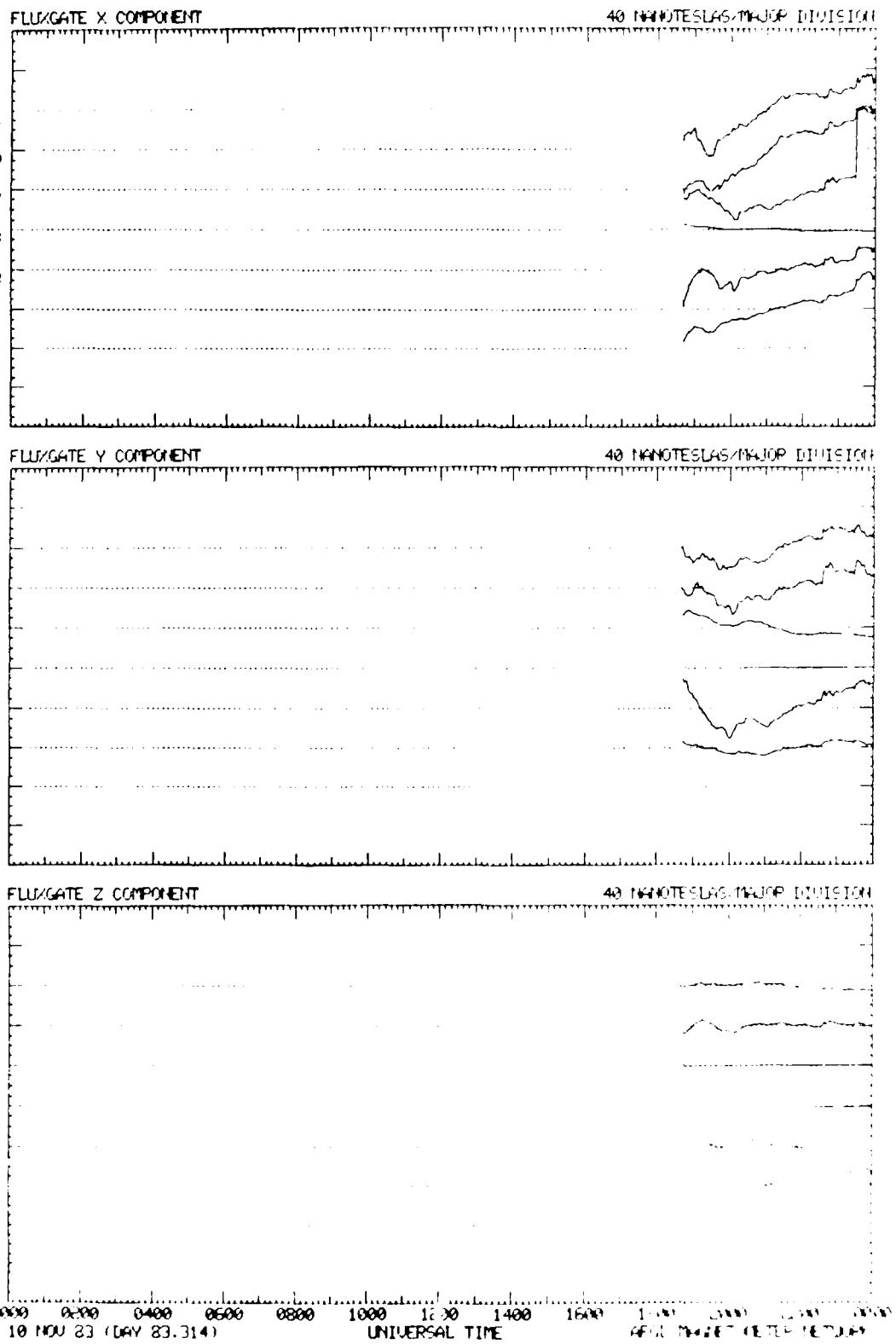
NEU
-106
RPC
-113
CDS
-89
MCL
-193
SUB
-125
LOC
-26

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54390
RPC
54498
CDS
55250
MCL
54399
SUB
53164
LOC
42822

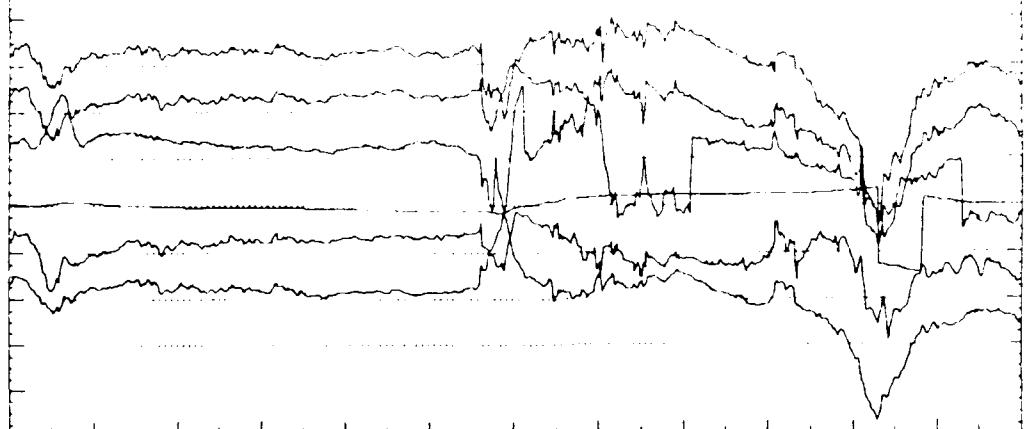
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300 0000
09 NOV 83 (DAY 83.313) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS MAJOR DIVISION

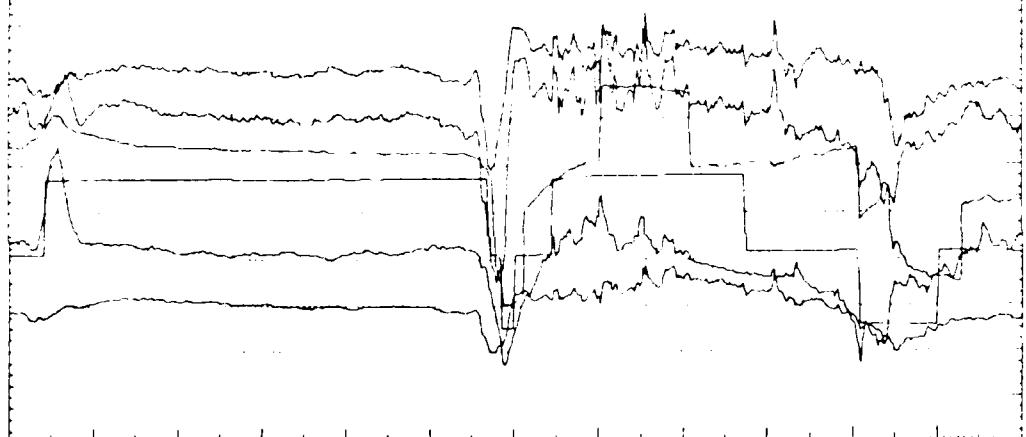
NEU
12202
RPC
12535
CDS
17211
MCL
18114
SUB
18731
LOC
24891



FLUXGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEU
1224
RPC
133
CDS
153
MCL
156
SUB
185
LOC
15



FLUXGATE Z COMPONENT

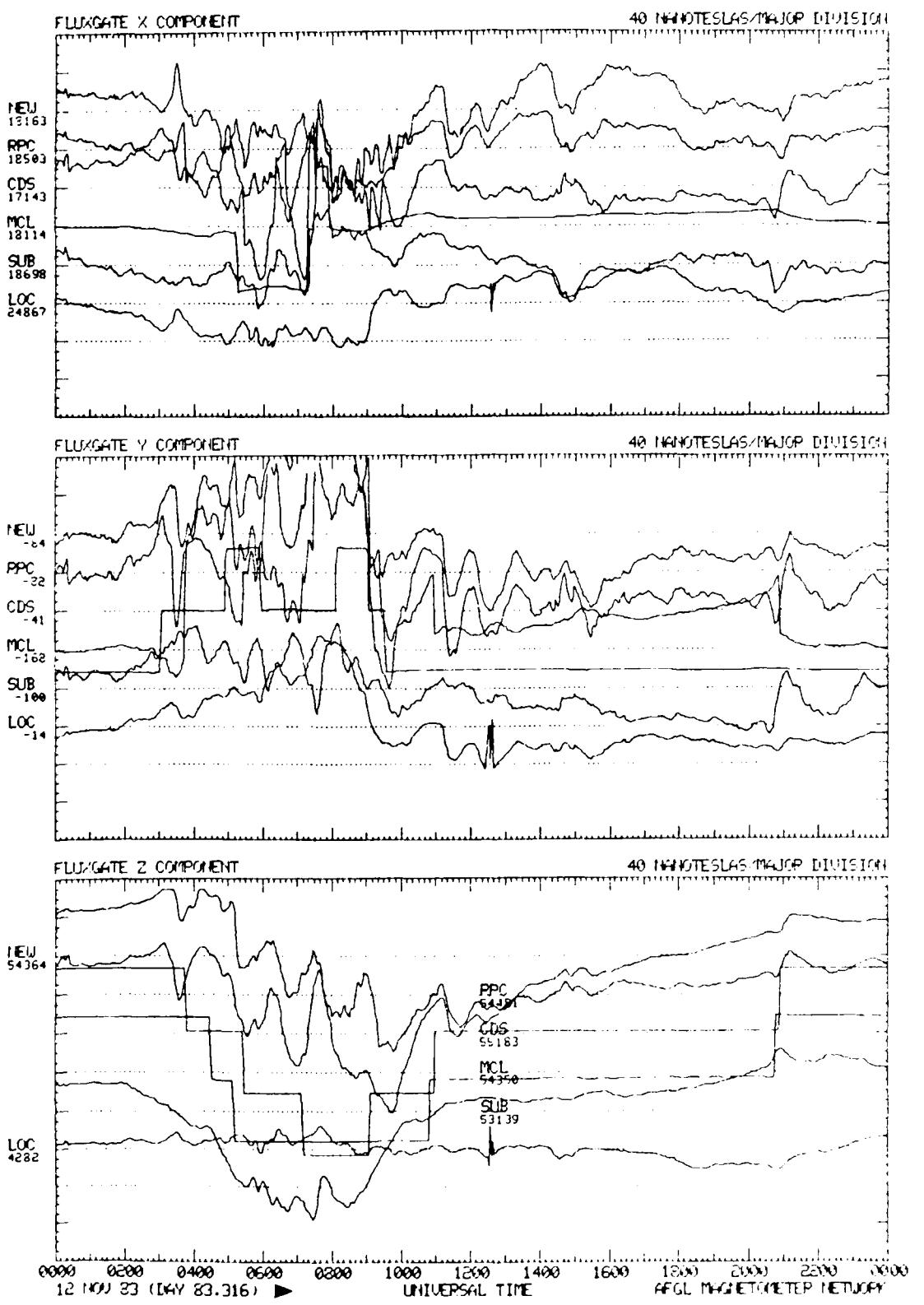
40 NANOTESLAS MAJOR DIVISION

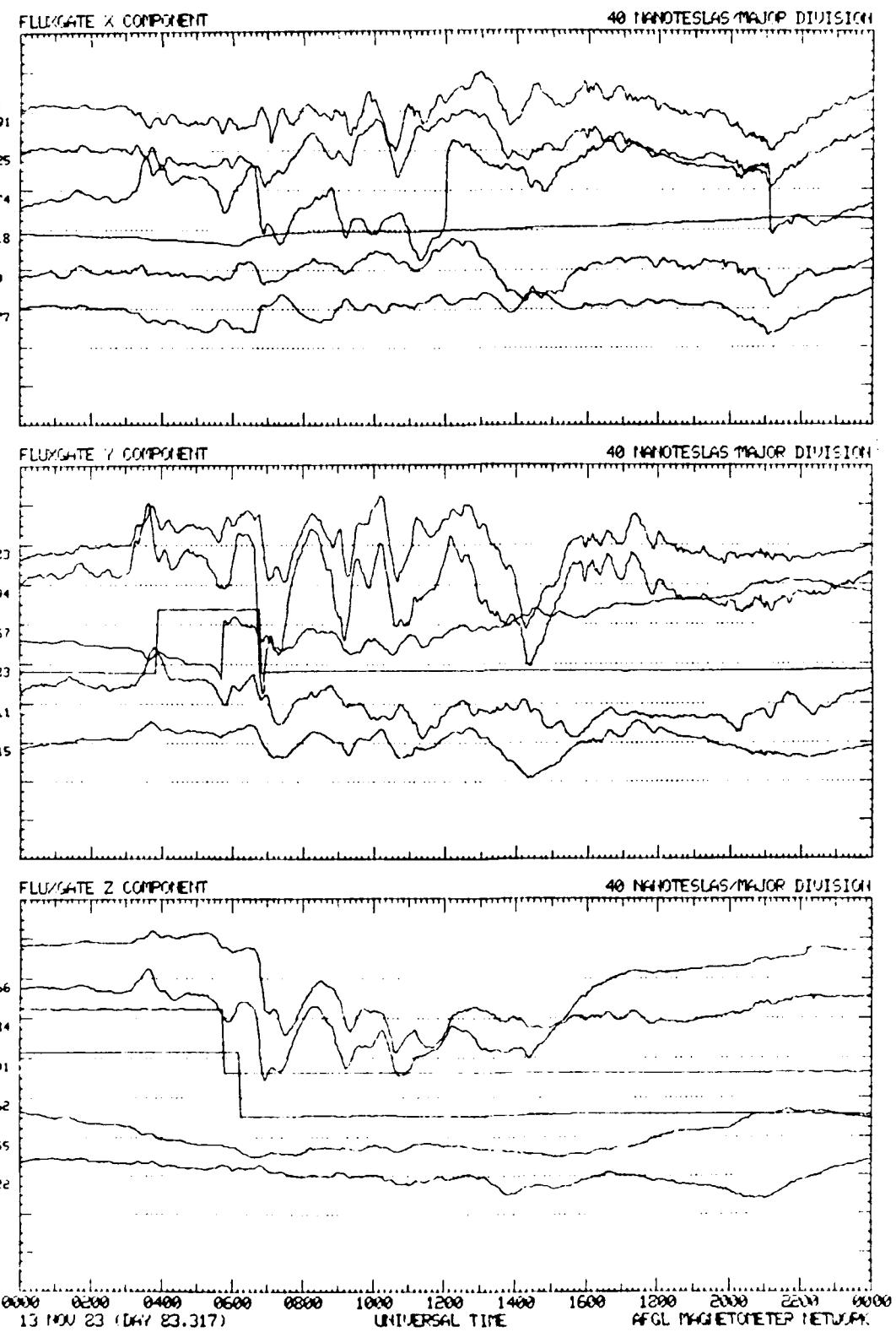
NEU
54182
RPC
54422
CDS
55134
MCL
54183
SUB
53155
LOC
48221

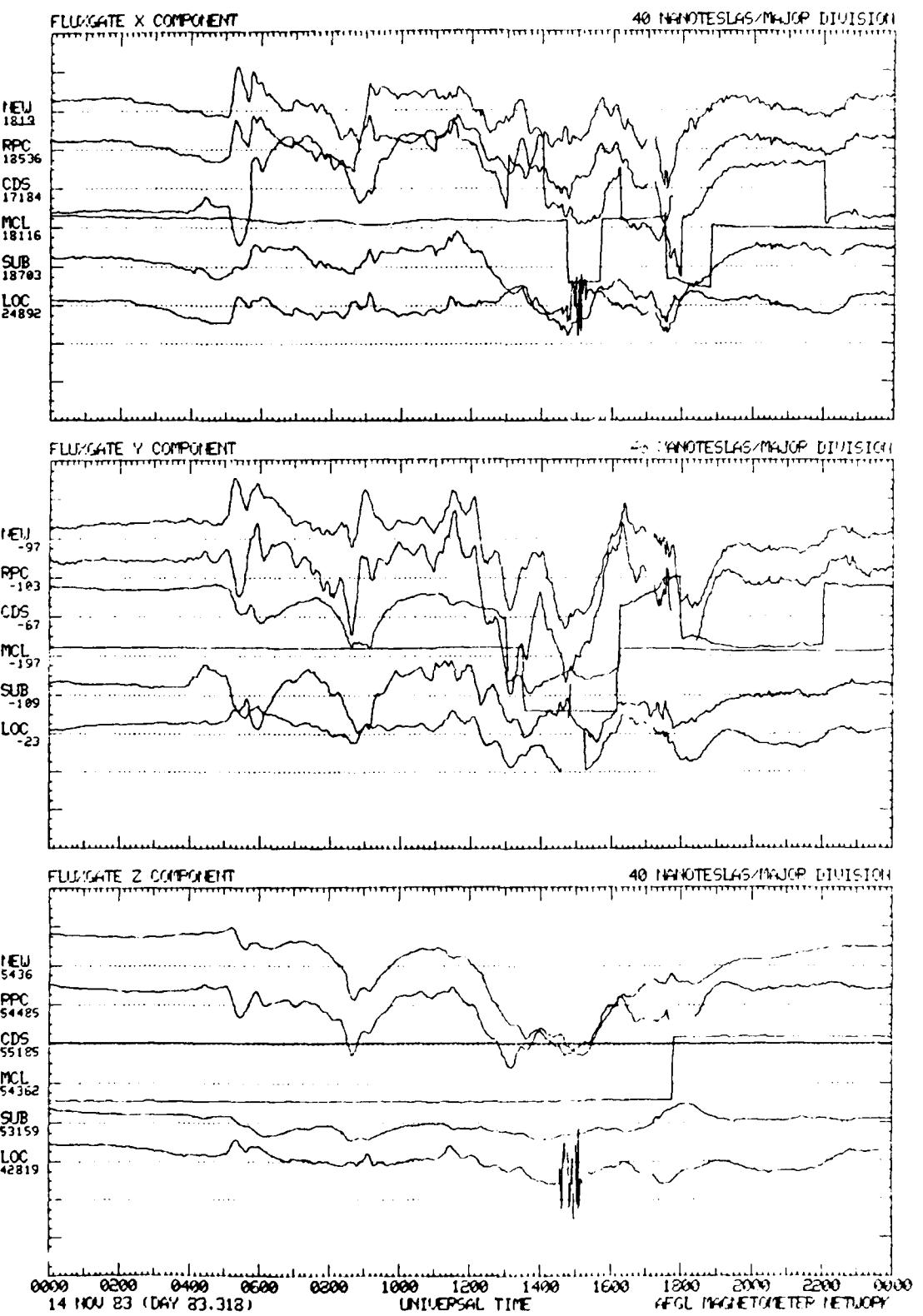
0800 08200 08400 08600 08800 10000 12000 14000 16000 18000 20000 22000 23000
11 NOV 23 (DAY 23.315)

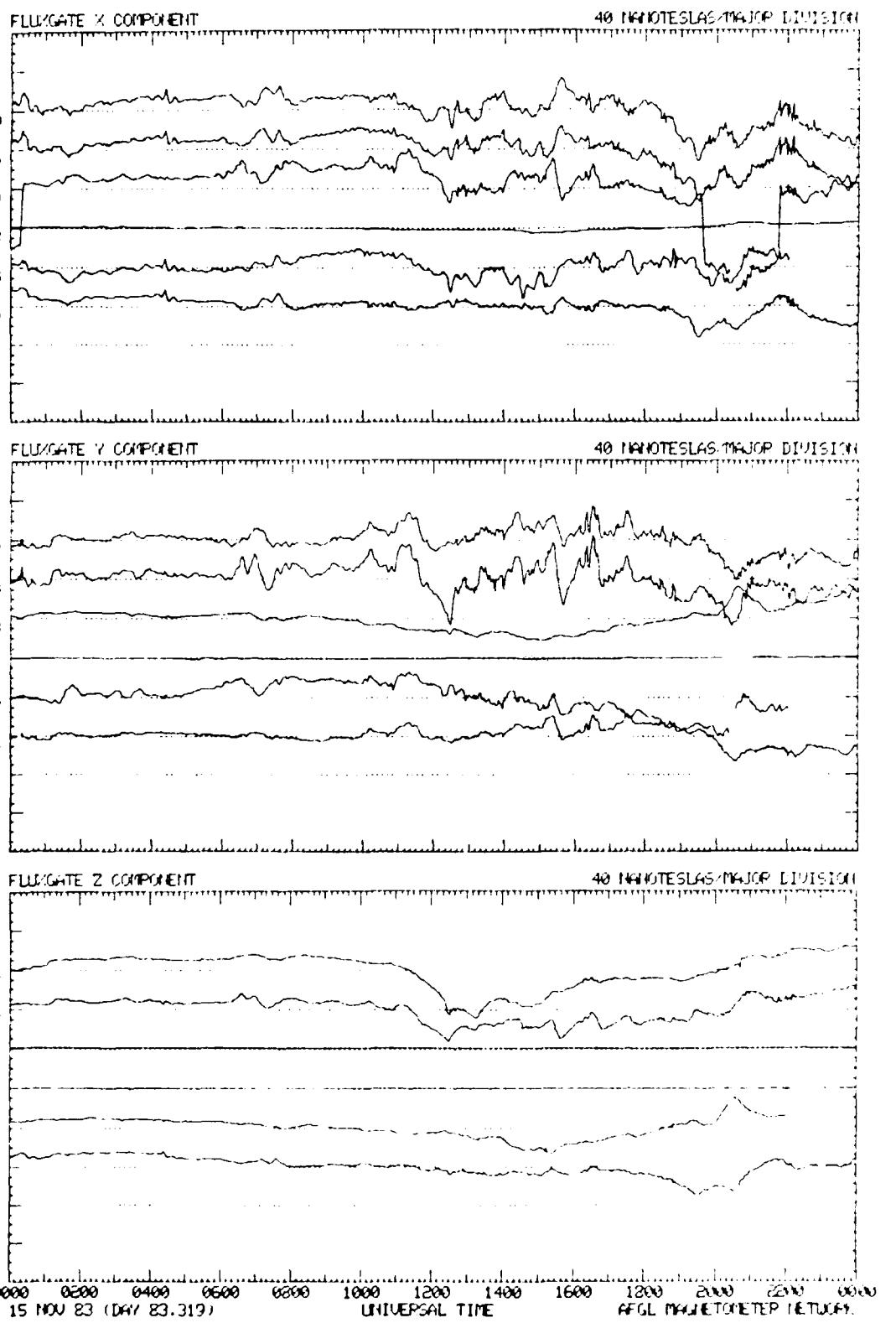
UNIVERSAL TIME

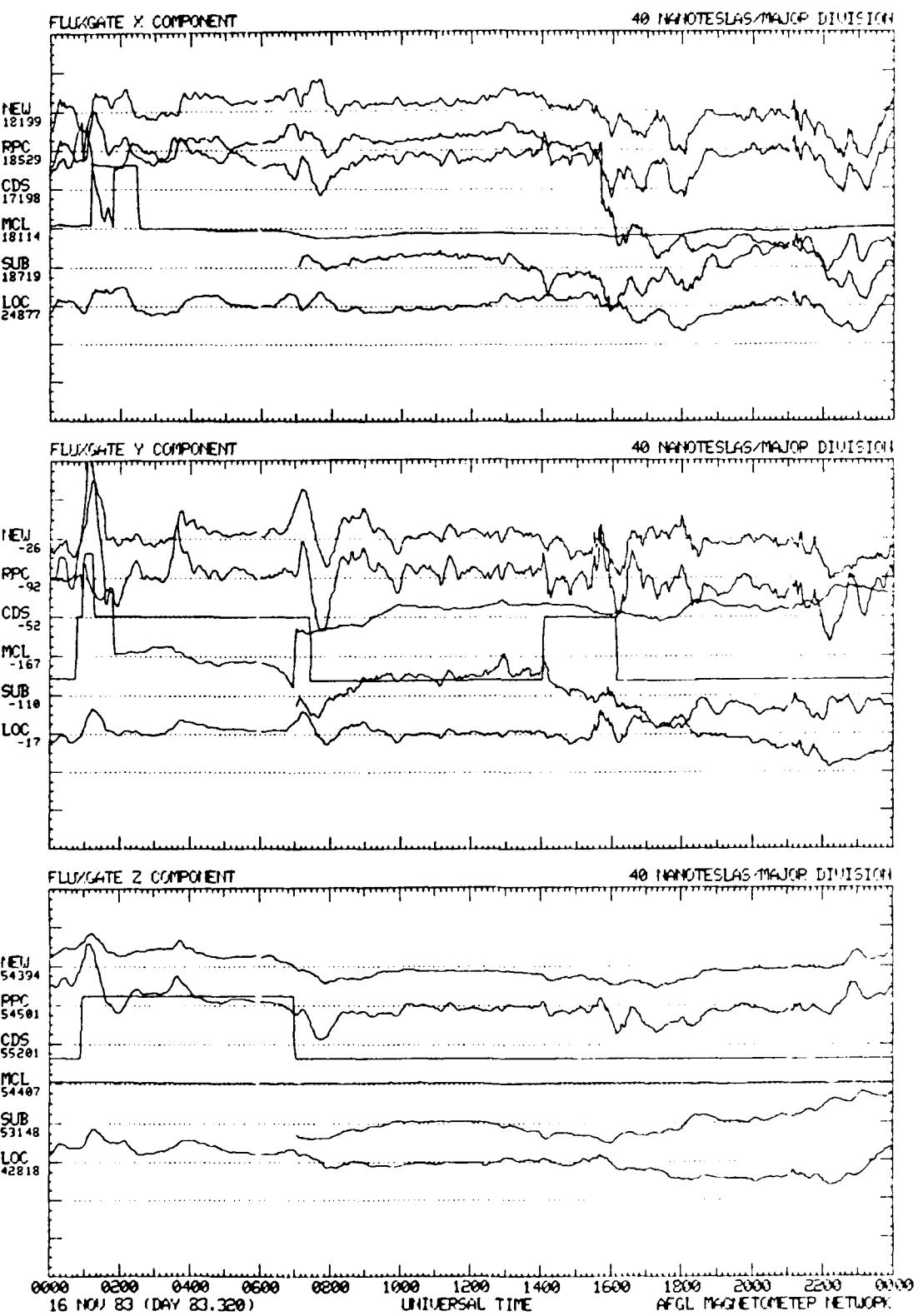
REAL MAGNETOMETER NETWORK

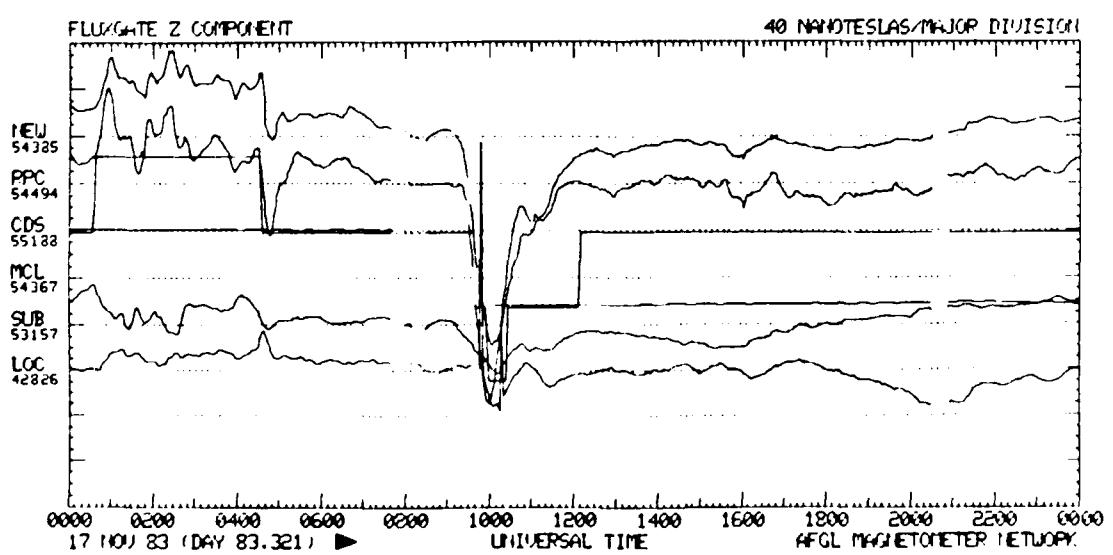
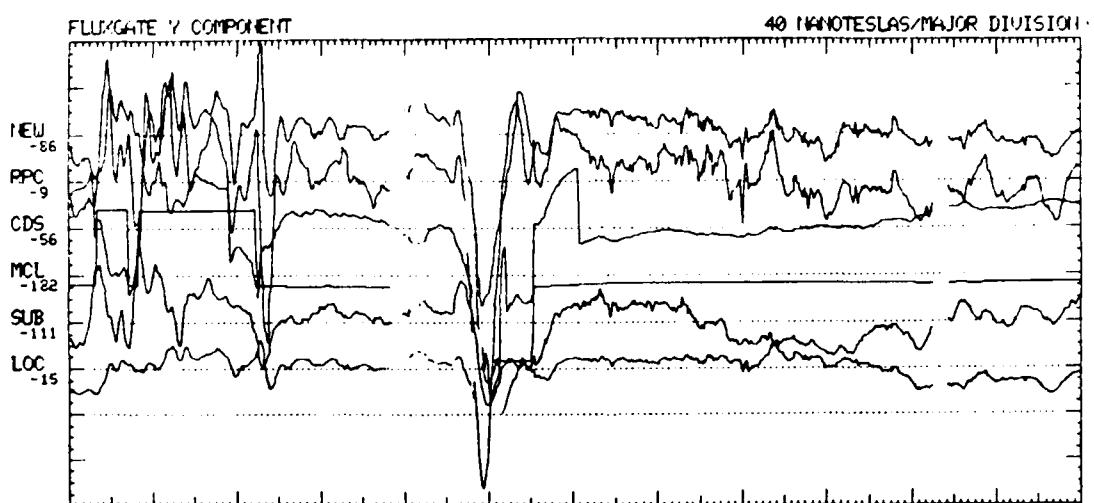
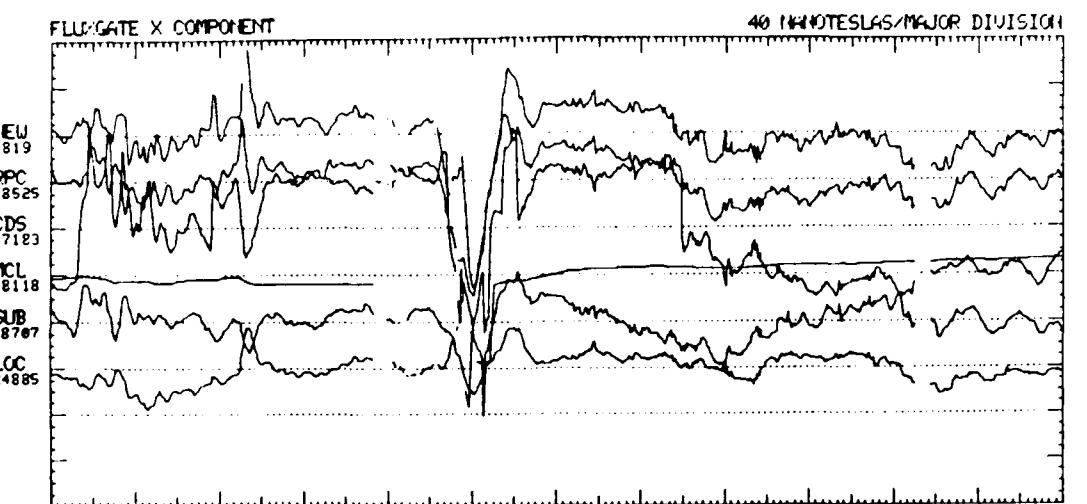




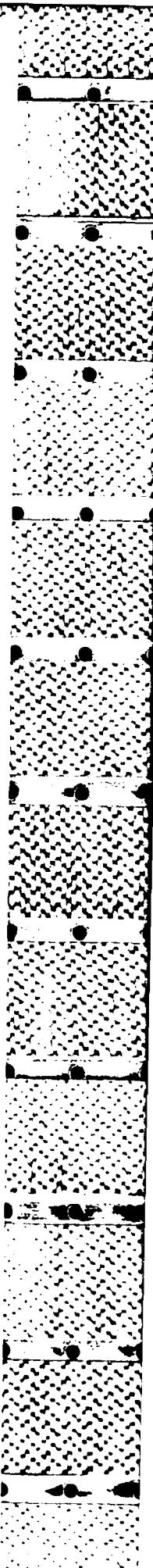








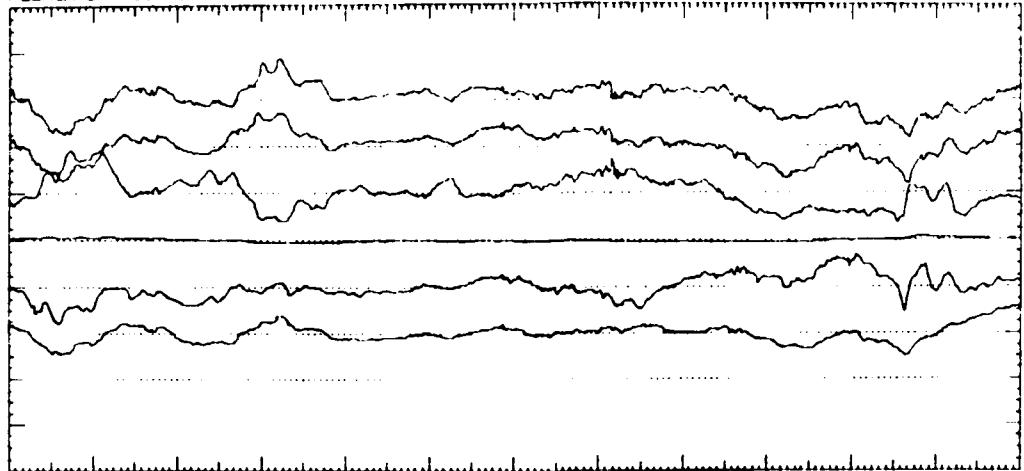
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
17 NOV 83 (DAY 83.321) ► UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

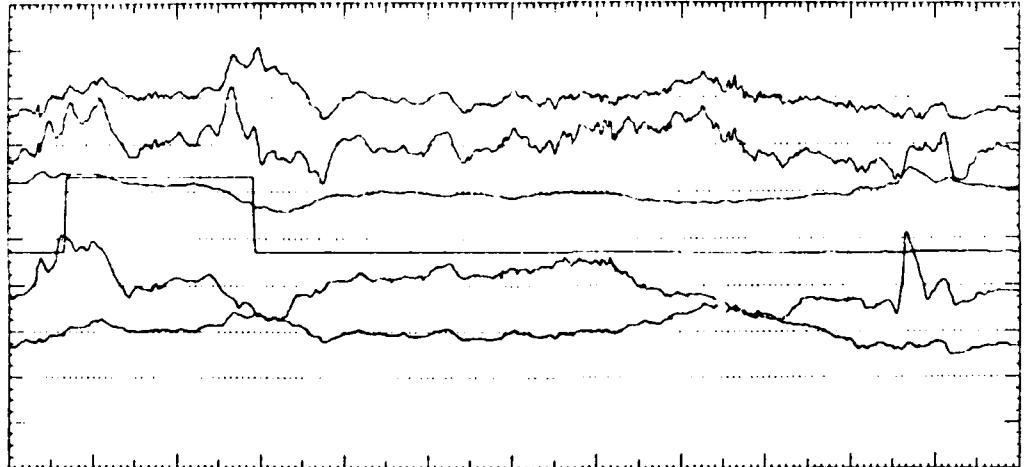
NEU
18205
RPC
13542
CDS
17223
MCL
18127
SUB
18717
LOC
24887



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

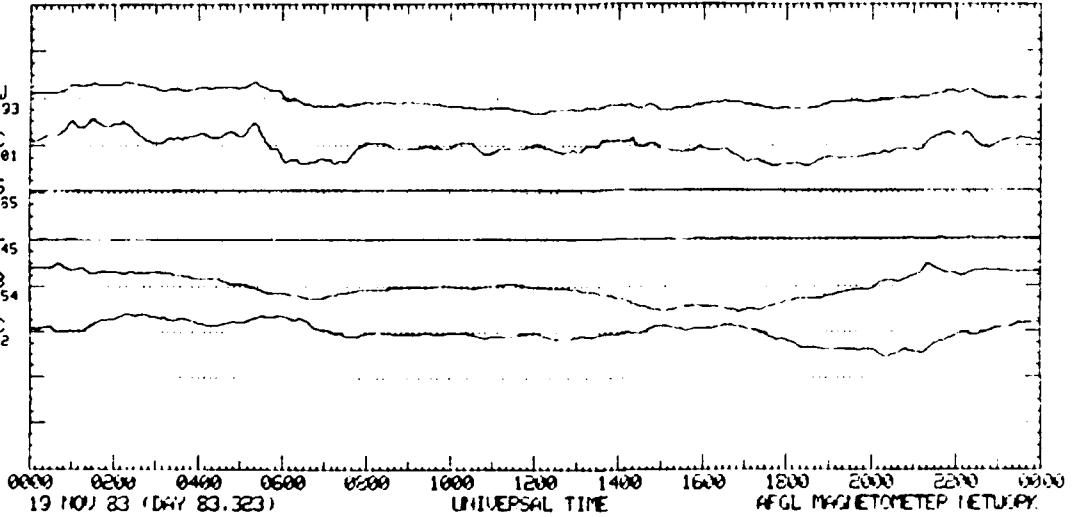
NEU
-25
RPC
-83
CDS
-51
MCL
-178
SUB
-96
LOC
-16



FLUXGATE Z COMPONENT

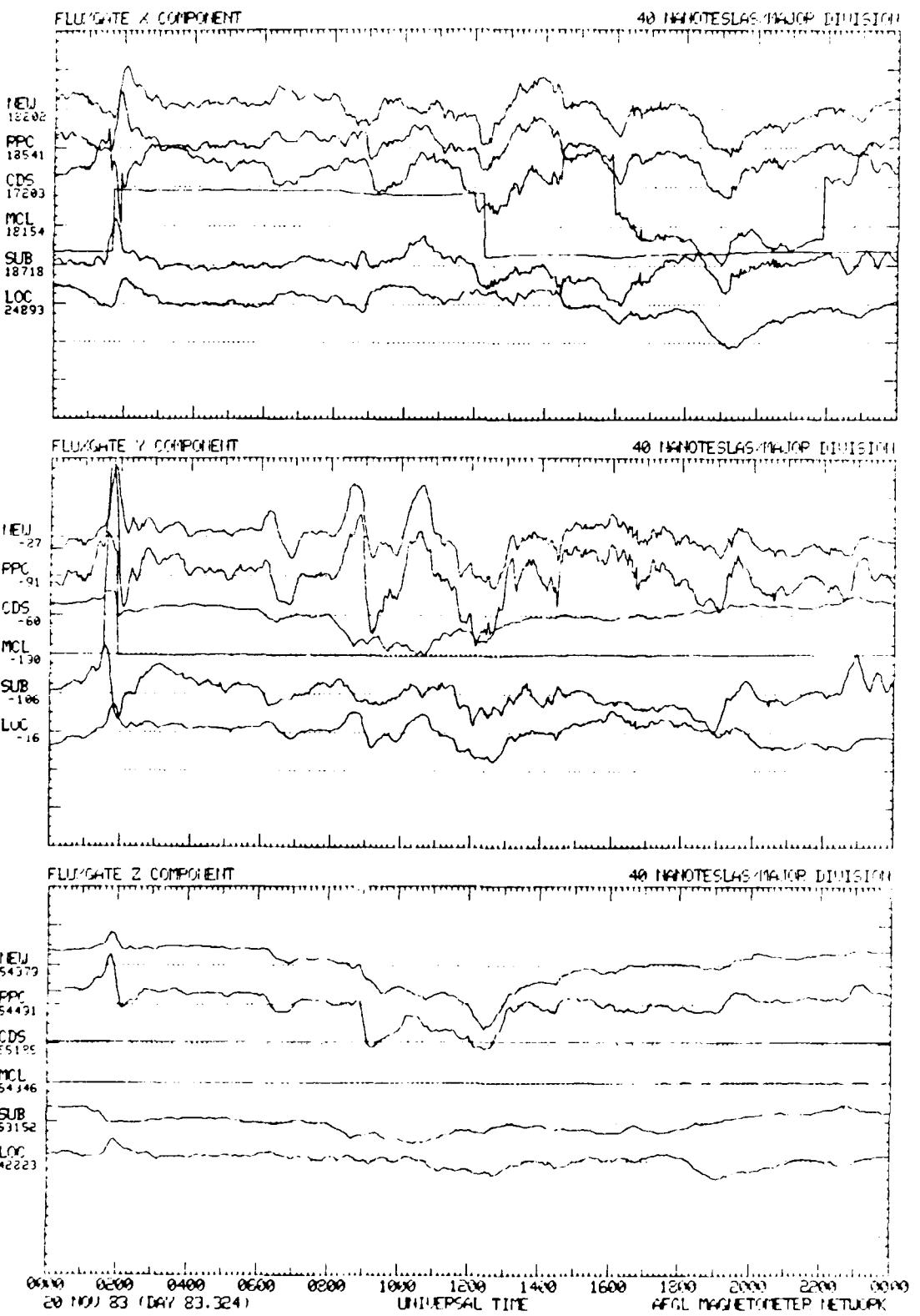
40 NANOTESLAS/MAJOR DIVISION

NEU
54323
RPC
54501
CDS
55185
MCL
54345
SUB
53154
LOC
4282



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
19 NOV 83 (DAY 83.323)

UNIVERSAL TIME AFGL MAGNETOMETER NETWKPY



FLUXGATE Y COMPONENT

40 NANOTESLAS MINOR DIVISION

NEU
18208
PPC
18549
CDS
17229
MCL
18127
SUB
1873
LOC
24823

FLUXGATE Y COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEU
-99
PPC
-94
CDS
-53
MCL
-191
SUB
-103
LOC
-17

FLUXGATE Z COMPONENT

40 NANOTESLAS MAJOR DIVISION

NEU
54326
PPC
54495
CDS
55135
MCL
54347
SUB
53148
LOC
42815

0000 0800 0600 0600 0200 1000 1200 1400 1600 1800 2000 2200 0000
21 NOV 23 (DAY 23.325) UNIVERSAL TIME AFGL MAGNETOMETER NETWUR

FLUXGATE X COMPONENT

40 NANOTESLAS/Major DIVISION

NEW
18210
RPC
18547
CDS
17220
MCL
18127
SUB
18724
LOC
24886

FLUXGATE Y COMPONENT

40 NANOTESLAS/Major DIVISION

NEW
-91
RPC
-92
CDS
-53
MCL
-190
SUB
-101
LOC
-17

FLUXGATE Z COMPONENT

40 NANOTESLAS/Major DIVISION

NEW
54325
RPC
54432
CDS
55135
MCL
54346
SUB
53152
LOC
42811

00000 02000 04000 06000 08000 10000 12000 14000 16000 18000 20000 22000
22 NOV 83 (DAY 23,326) UNIVERSAL TIME AFSL MAGNETOMETER RETRIEVE

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18214
PPC
18549
CDS
17220
MCL
18164
SUB
18731
LOC
24291

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
183
PPC
94
CDS
153
MCL
1140
SUB
193
LOC
19

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54384
PPC
54478
CDS
55177
MCL
54346
SUB
51148
LOC
46298

0000 0400 0800 1200 1600 2000 2400 0000
23 NOV 83 (DAY 33,327) UNIVERSAL TIME AFGL INTEGRIMETER MFTU 4K

FLUXGATE X COMPONENT

40 NANOTESLAS/MJOR DIVISION

NEW
18015
PPC
18549
CDS
17217
MCL
18176
SUB
18732
LOC
24905

FLUXGATE Y COMPONENT

40 NANOTESLAS/MJOR DIVISION

NEW
-21
PPC
-9
CDS
-60
MCL
-120
SUB
-100
LOC
-18

FLUXGATE Z COMPONENT

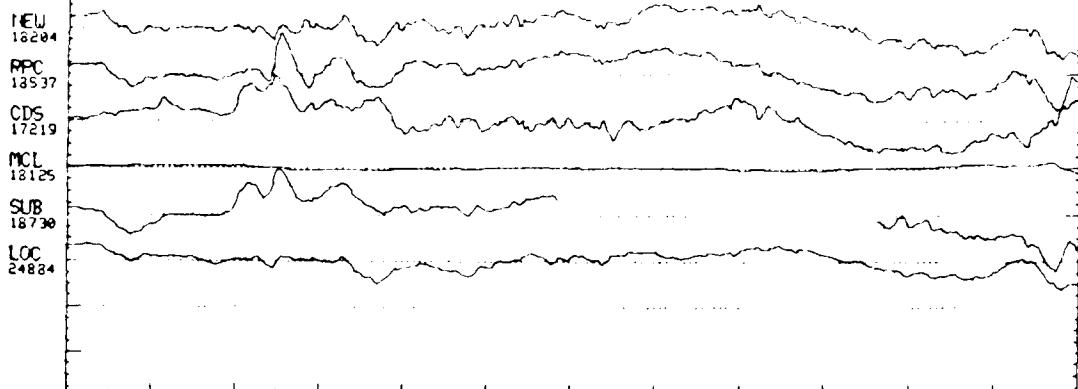
40 NANOTESLAS/MJOR DIVISION

NEW
54350
PPC
54413
CDS
55150
MCL
54346
SUB
53147
LOC
42810

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
24 NOV 23 (DAY 83.328) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

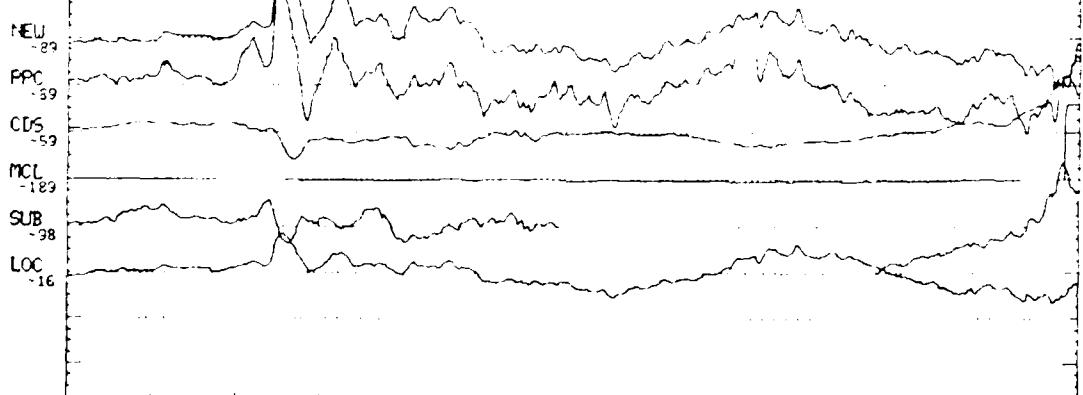
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



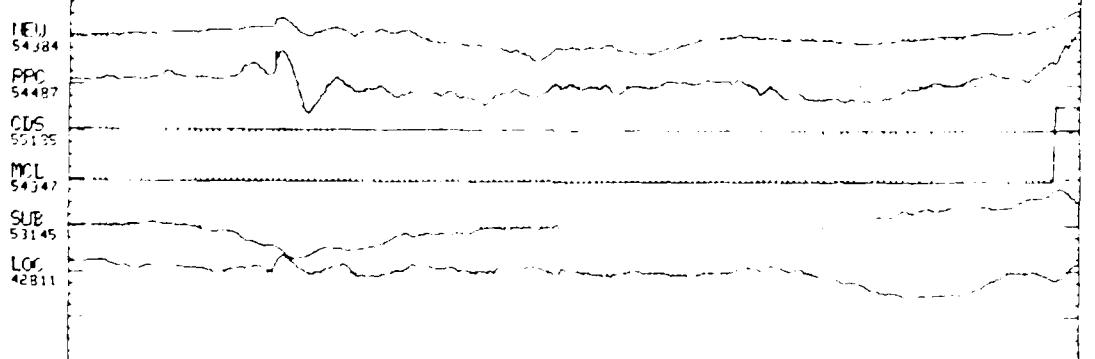
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION



FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
25 NOV 73 (DAY 23.329) UNIVERSAL TIME AFGL MAGNETOMETER NETFLX

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
13135
PPC
18538
CDS
17200
MCL
18121
SUB
18714
LOC
24870

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

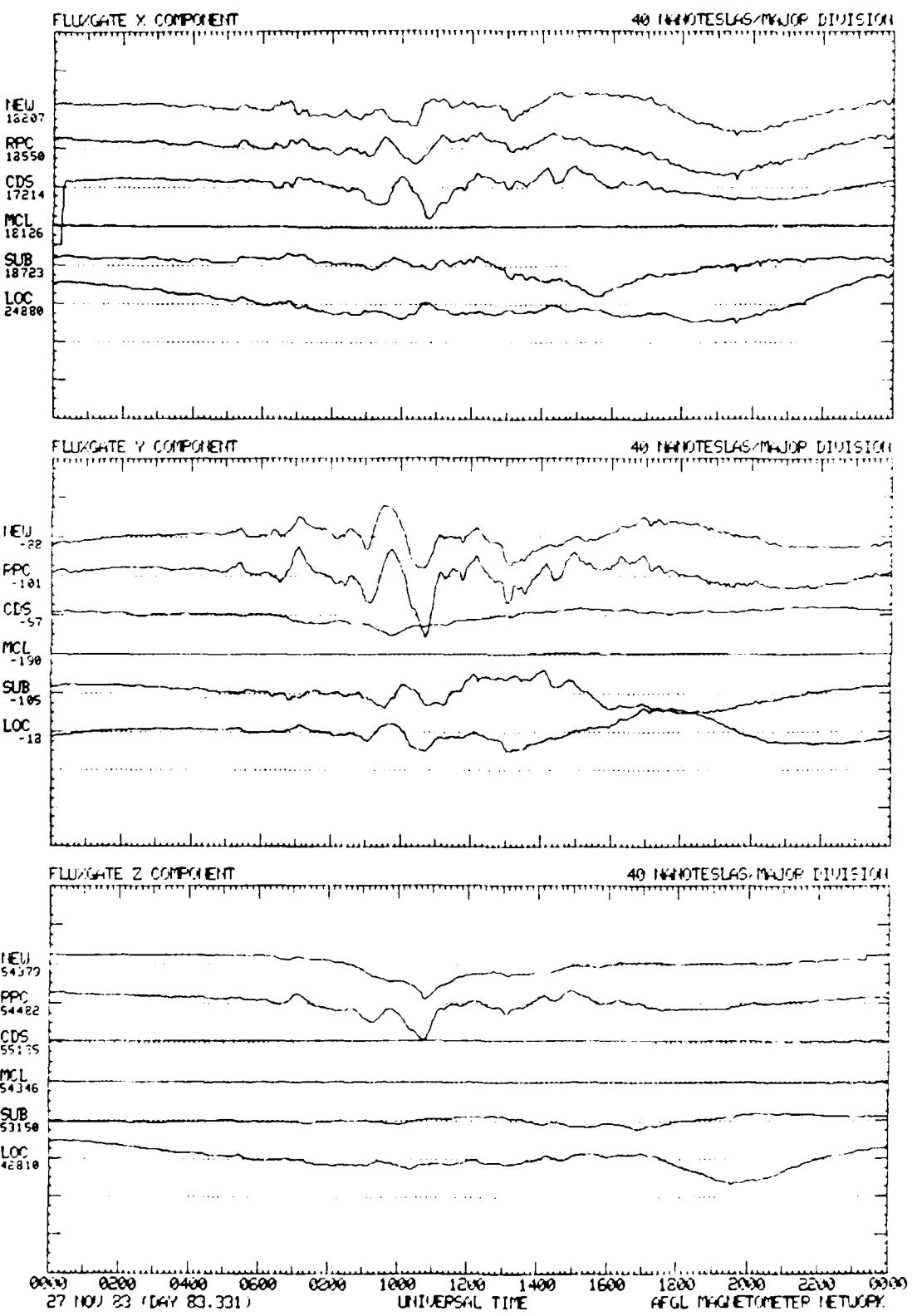
NEW
13134
PPC
18537
CDS
17201
MCL
18122
SUB
18700
LOC
24814

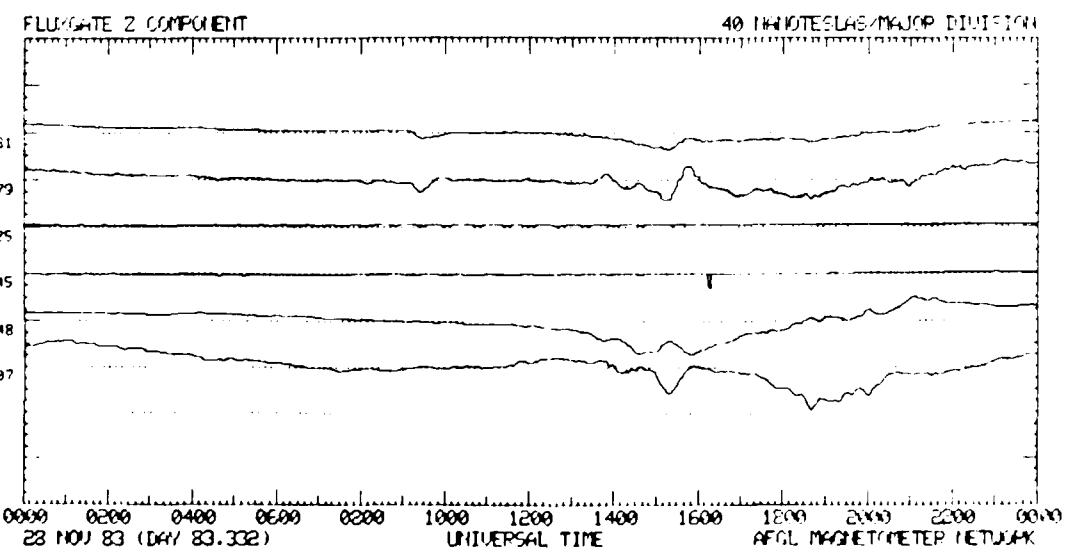
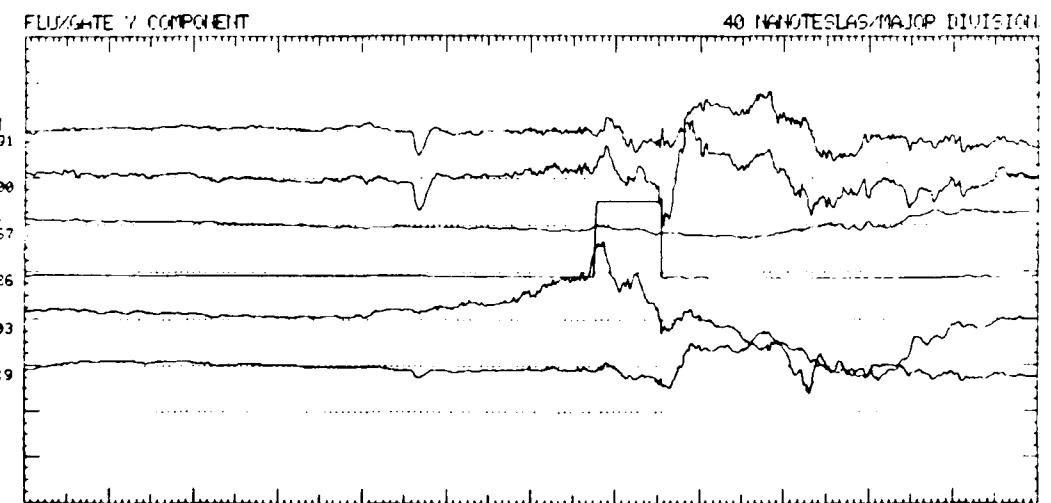
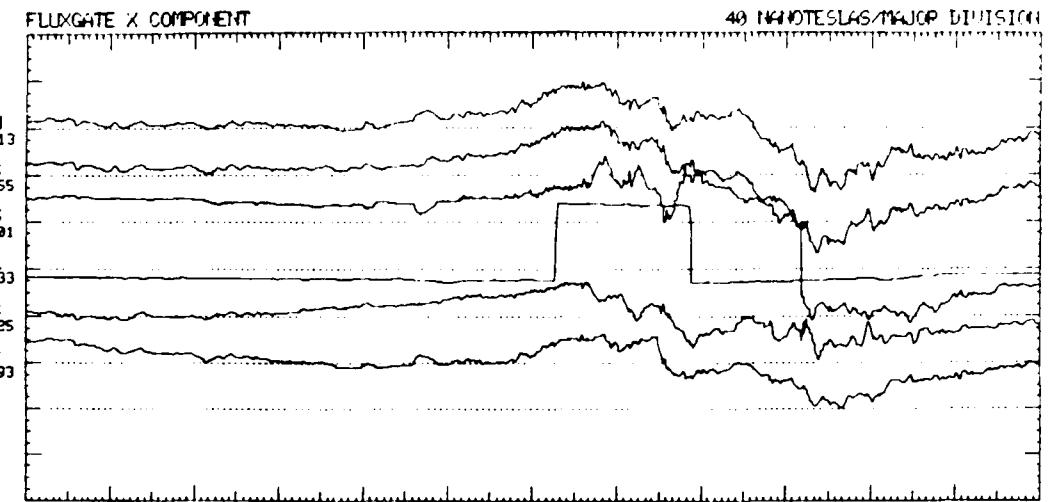
FLUXGATE Z COMPONENT

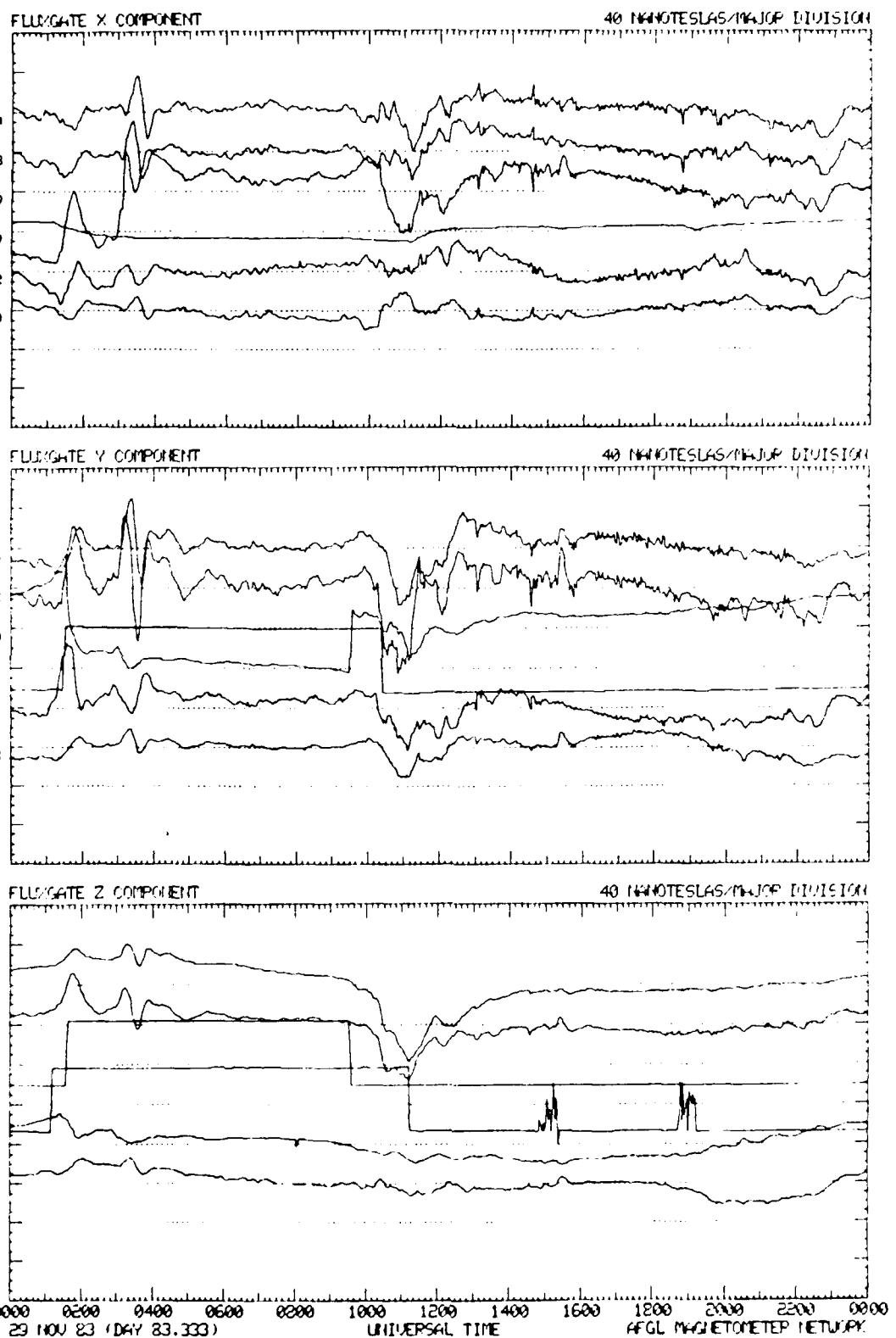
40 NANOTESLAS/MAJOR DIVISION

NEW
54322
PPC
54433
CDS
55125
MCL
54362
SUB
53146
LOC
42812

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
26 NOV 83 (DAY 83.330) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK







FLUX GATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
12138
PPC
18541
CDS
17203
MCL
18115
SUB
12716
LOC
24877

FLUX GATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

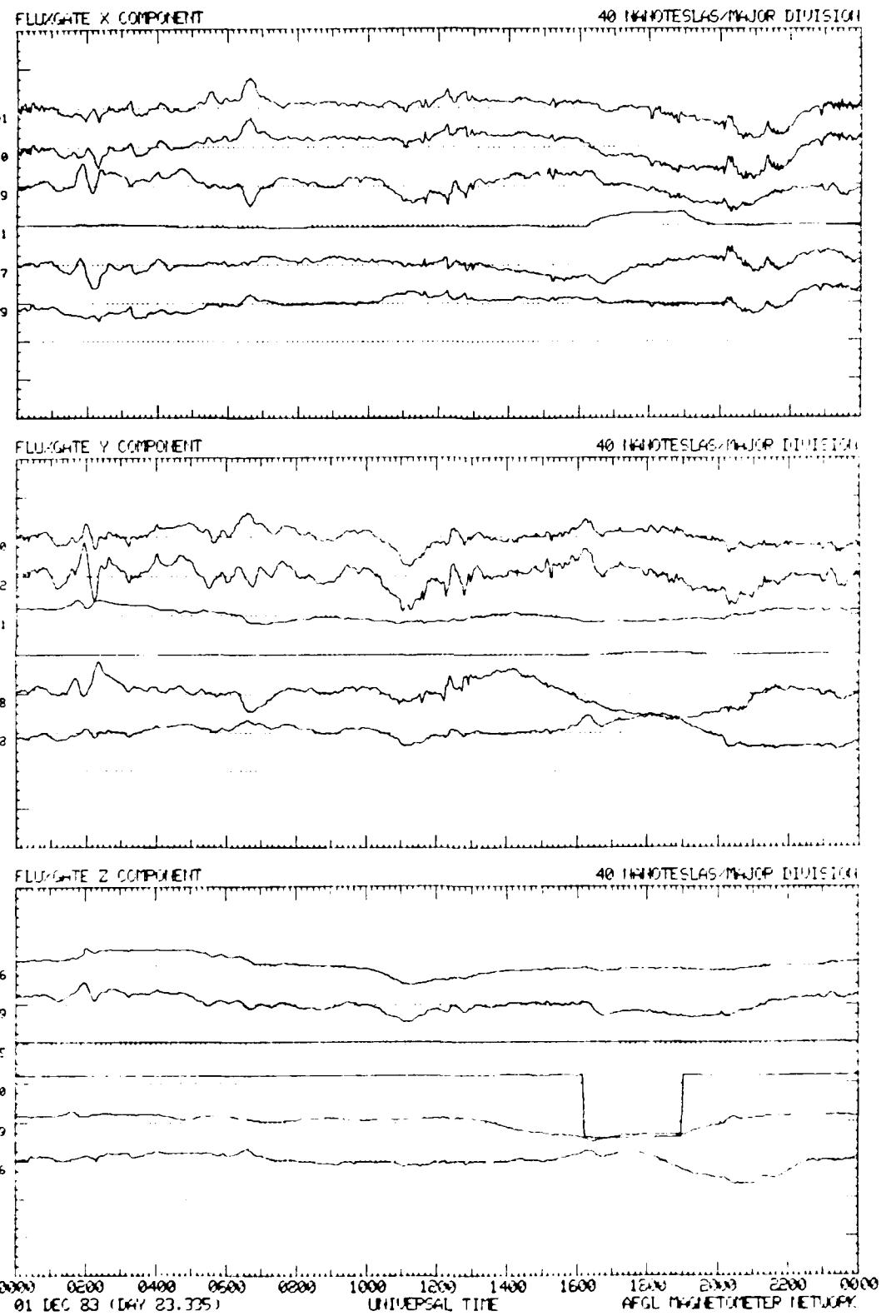
NEU
-79
PPC
-95
CDS
-52
MCL
-164
SUB
-100
LOC
-19

FLUX GATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54379
PPC
54423
CDS
55119
MCL
54392
SUB
53150
LOC
42810

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
30 NOV 83 (DAY 23.334) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
13283
PPC
18546
CDS
17217
MCL
18112
SUB
18720
LOC
24892

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

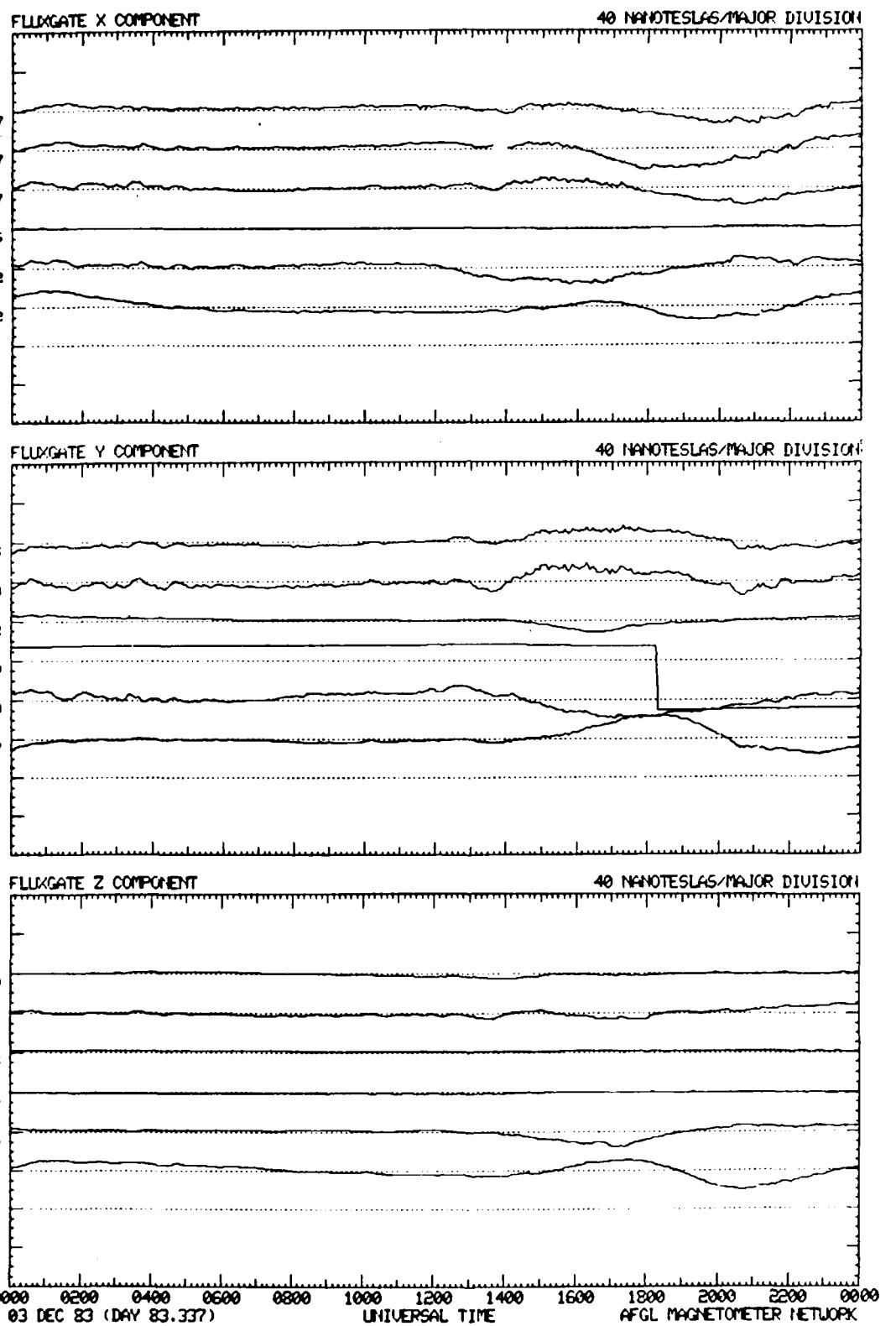
NEU
-138
PPC
-38
CDS
-68
MCL
-126
SUB
-97
LOC
-17

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54375
PPC
54422
CDS
55126
MCL
54358
SUB
53148
LOC
42816

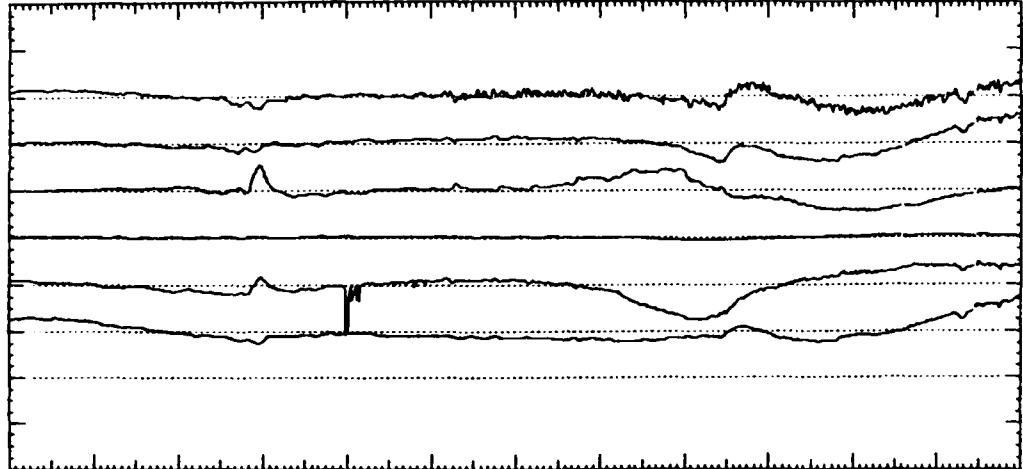
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
02 DEC 23 (DAY 83.336) UNIUEPSL TIME AFGL MAGNETOMETER NETWPK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

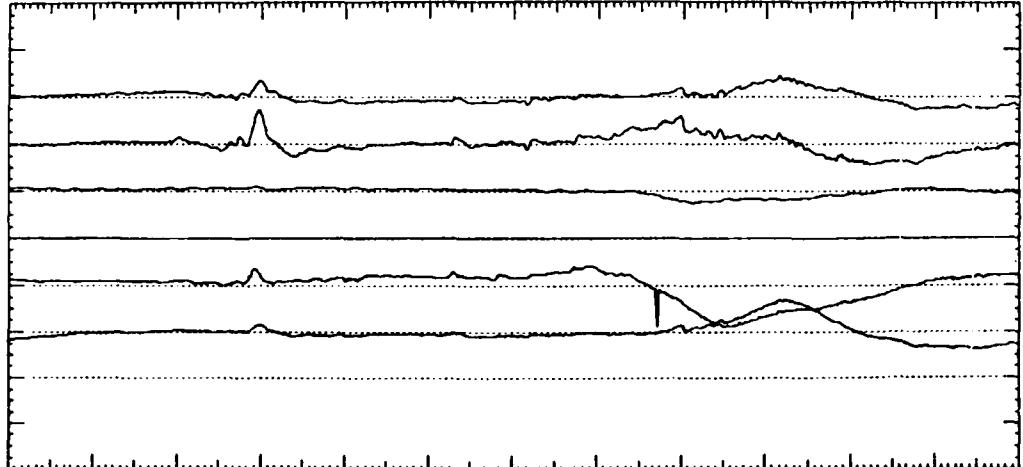
NEW
1221
RPC
18568
CDS
17217
MCL
18124
SUB
18723
LOC
24894



FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

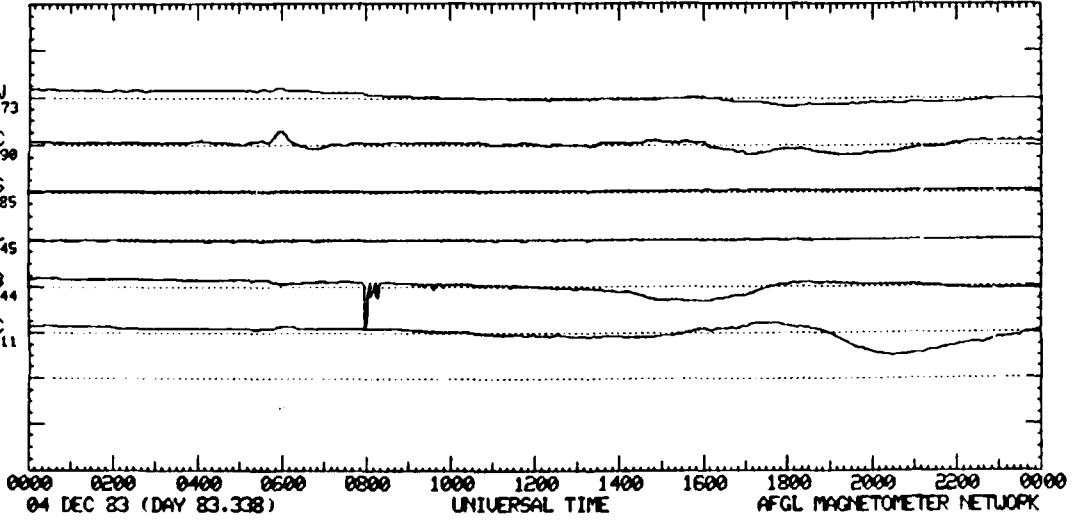
NEW
-98
RPC
-78
CDS
-61
MCL
-189
SUB
-98
LOC
-19

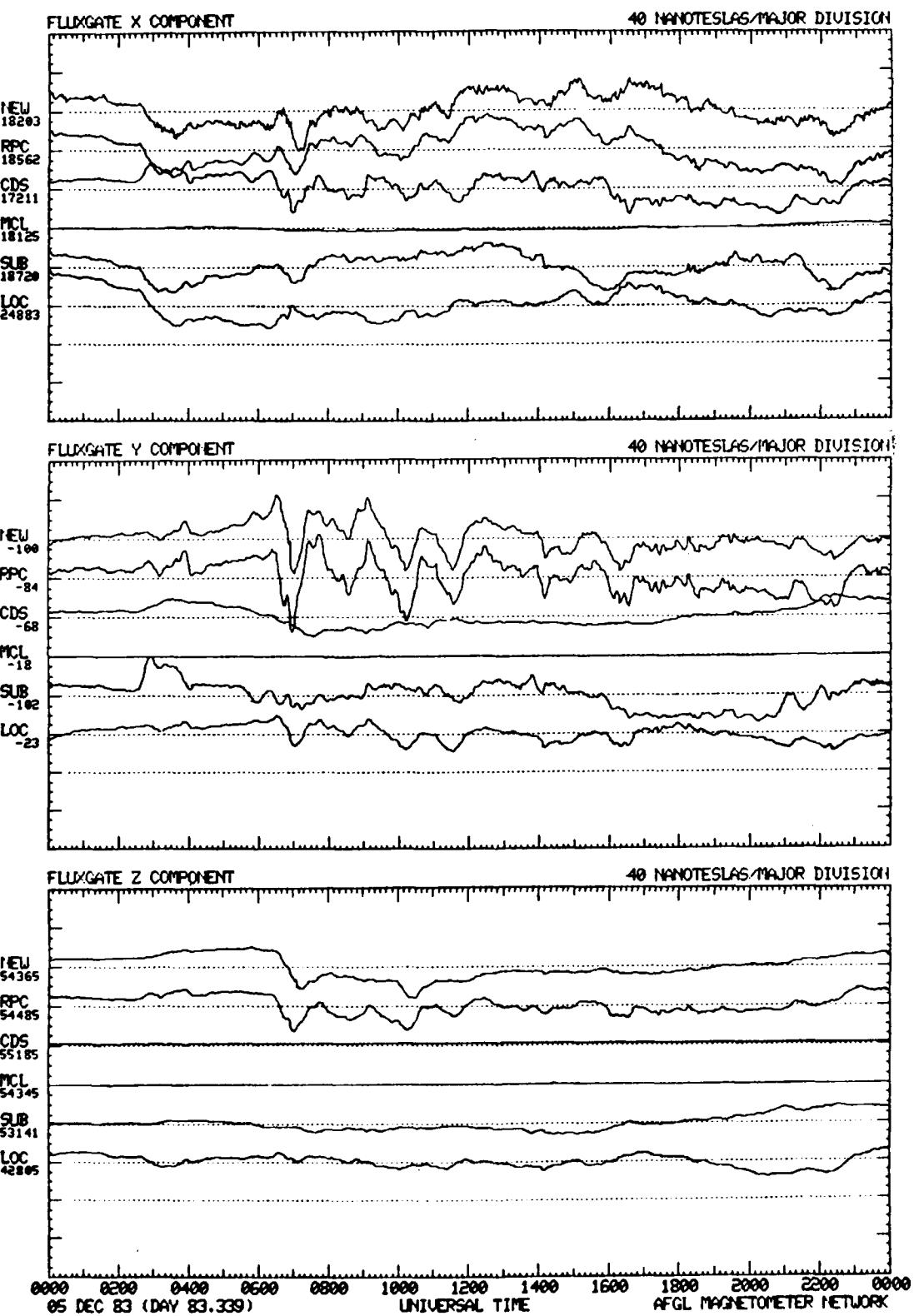


FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54373
RPC
54498
CDS
55185
MCL
54345
SUB
53144
LOC
42811





FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18127
RPC
18541
CDS
17181
MCL
18120
SUB
12699
LOC
24866

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

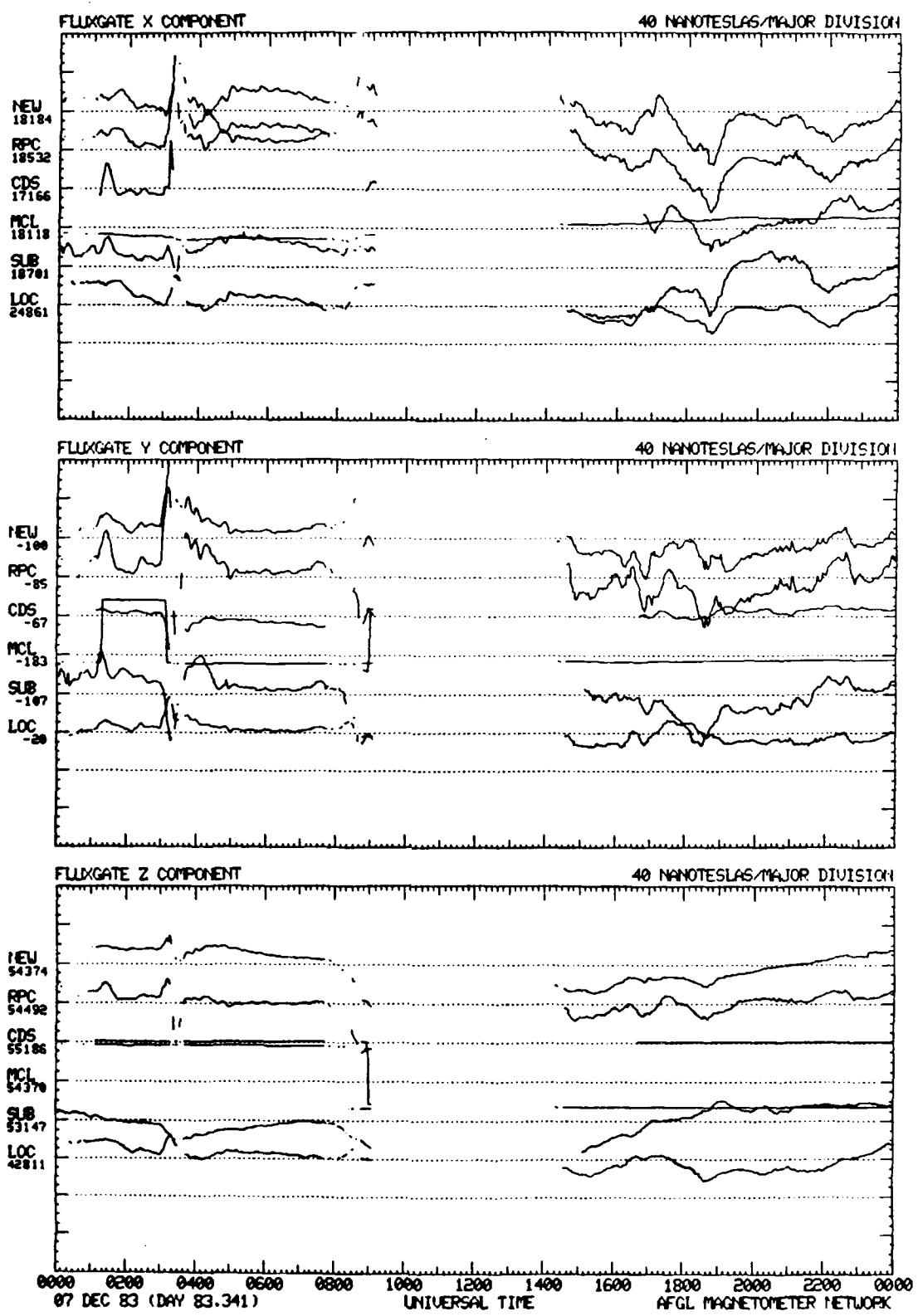
NEU
-94
RPC
-84
CDS
-47
MCL
-178
SUB
-103
LOC
-17

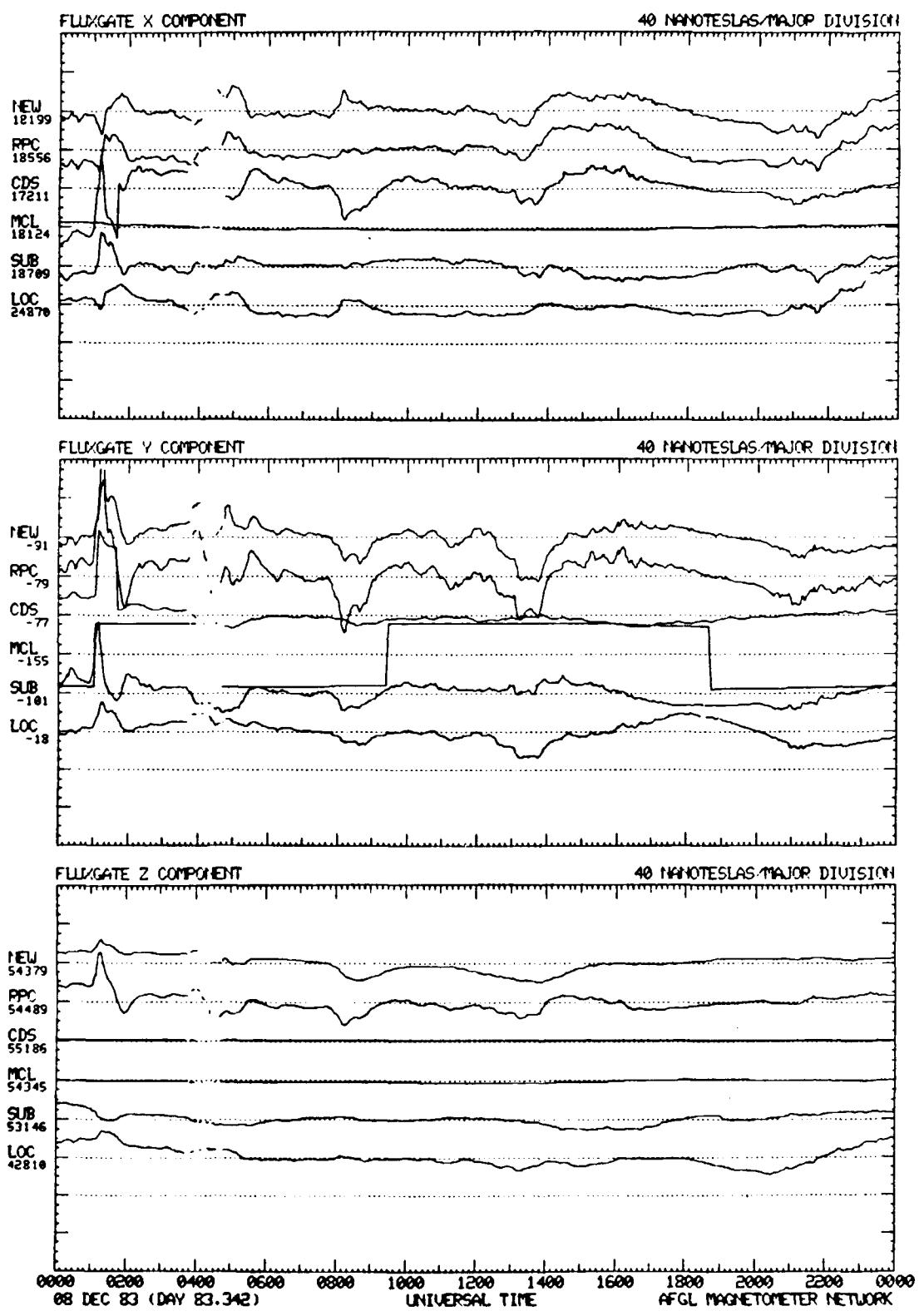
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54358
PPC
54477
CDS
55145
MCL
54349
SUB
53143
LOC
42867

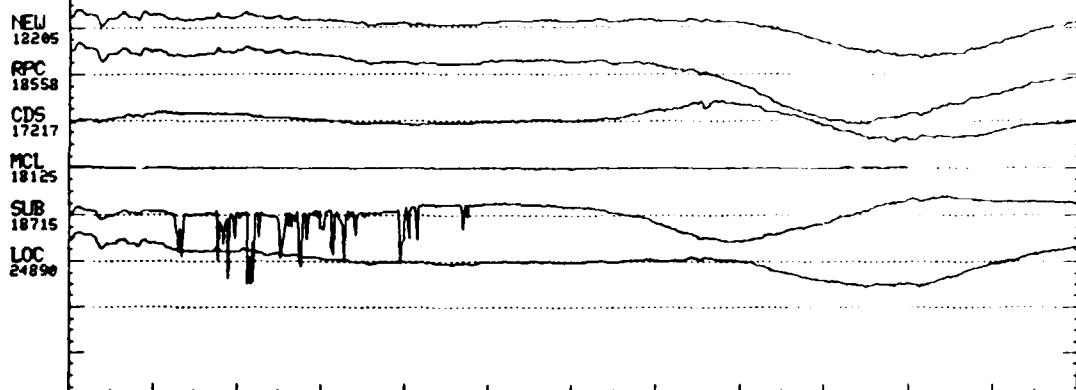
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
06 DEC 83 (DAY 83.340) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





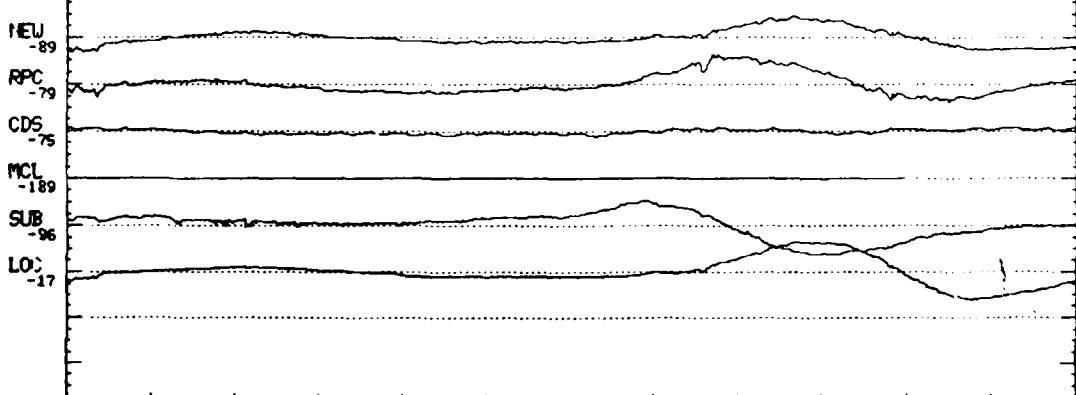
FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION



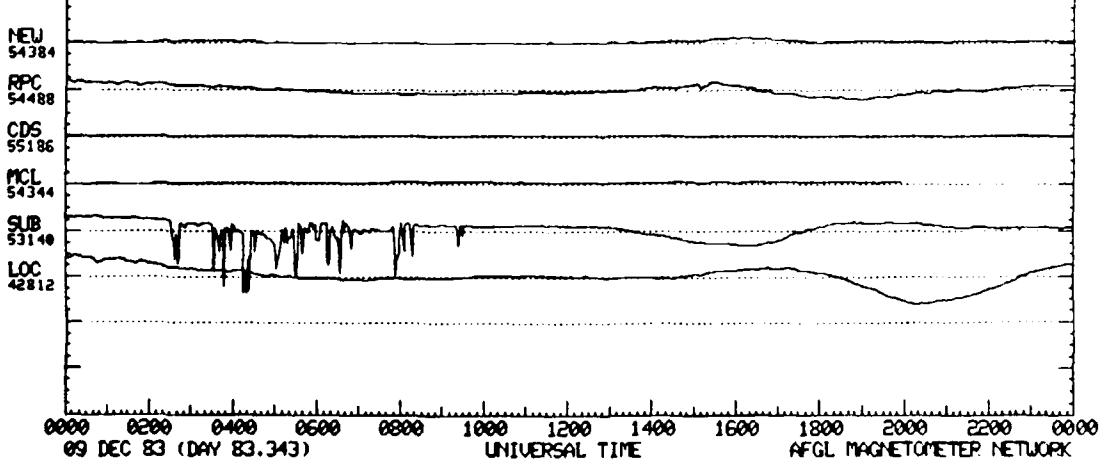
FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

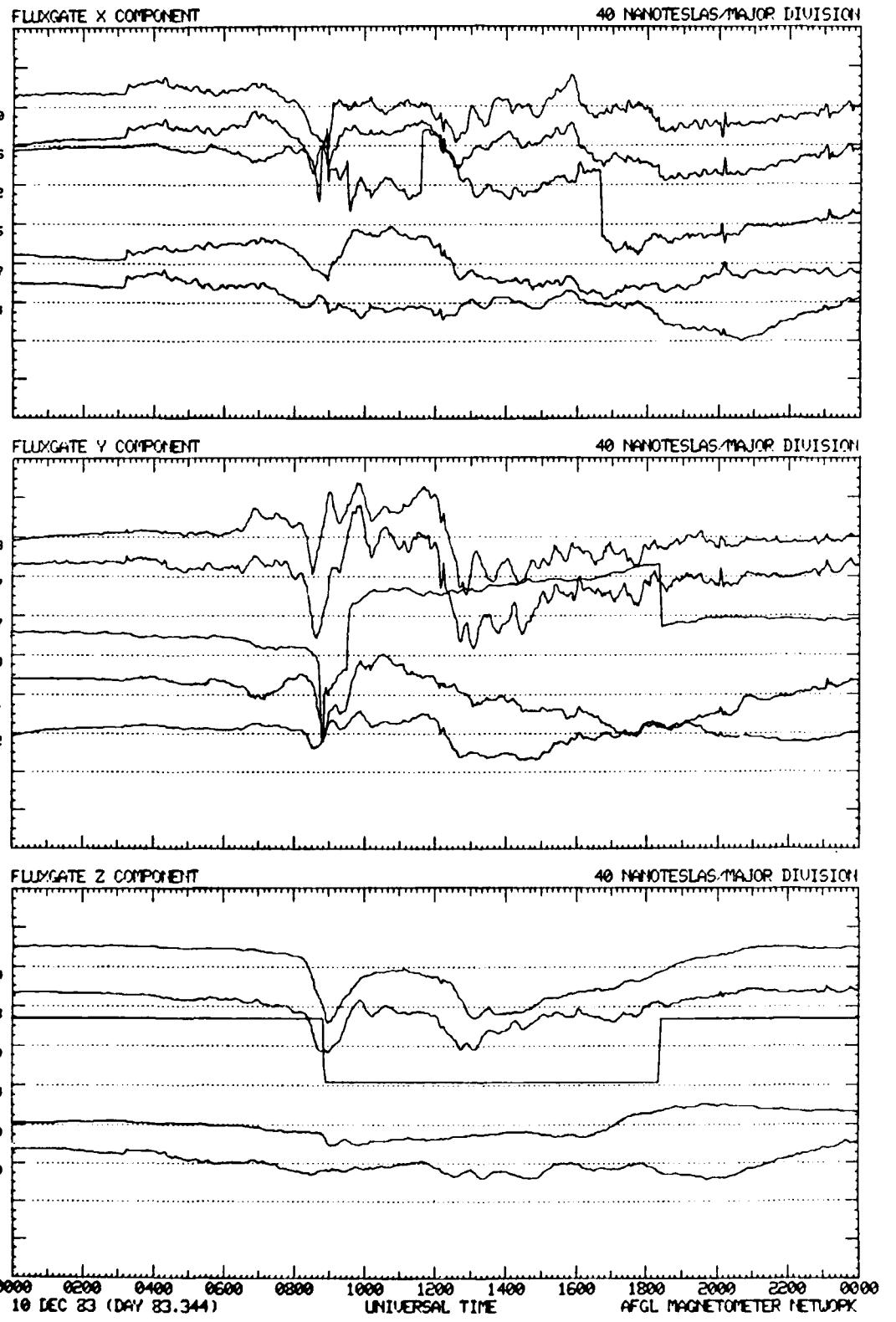


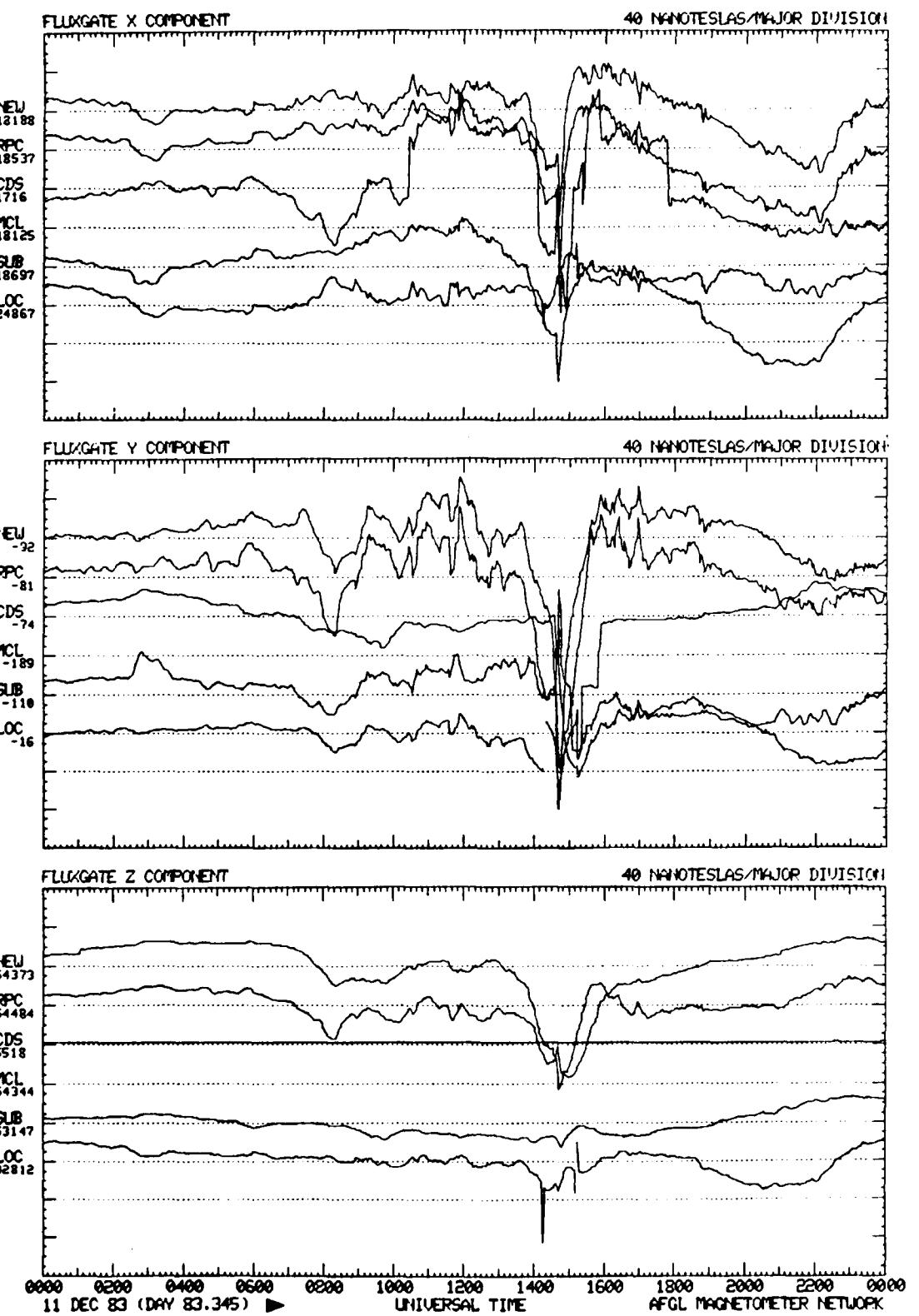
FLUXGATE Z COMPONENT

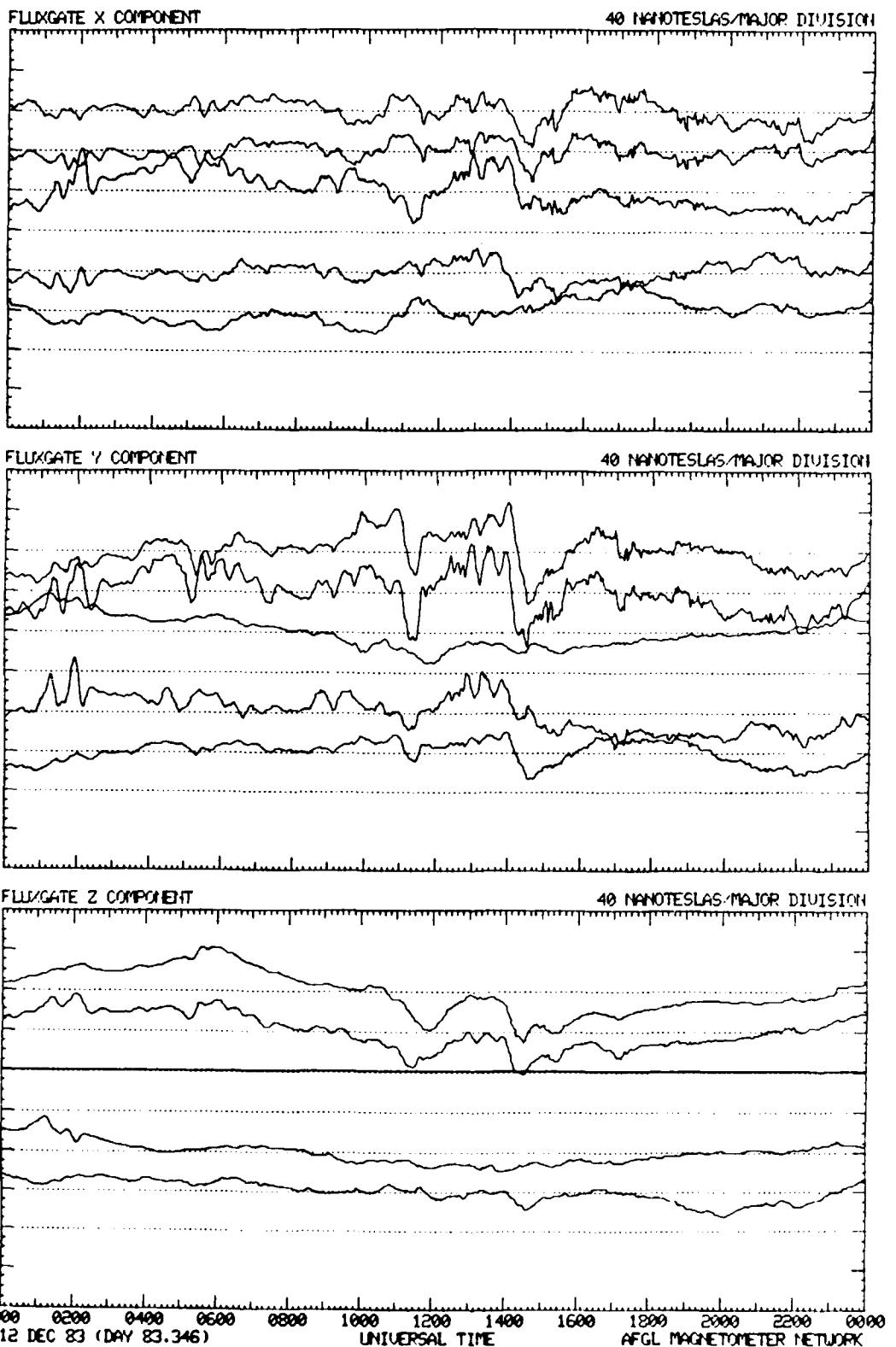
40 NANOTESLAS/MAJOR DIVISION

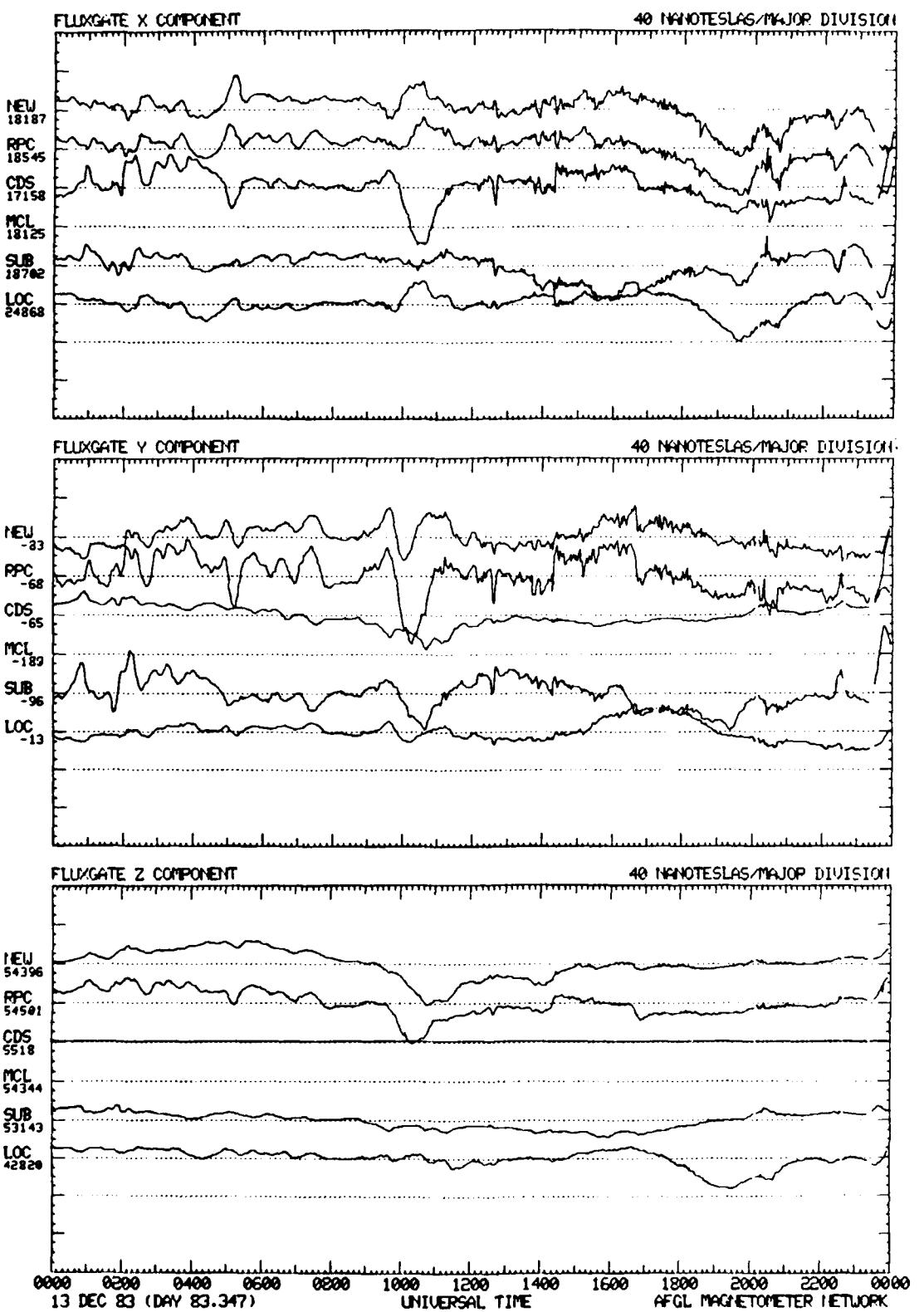


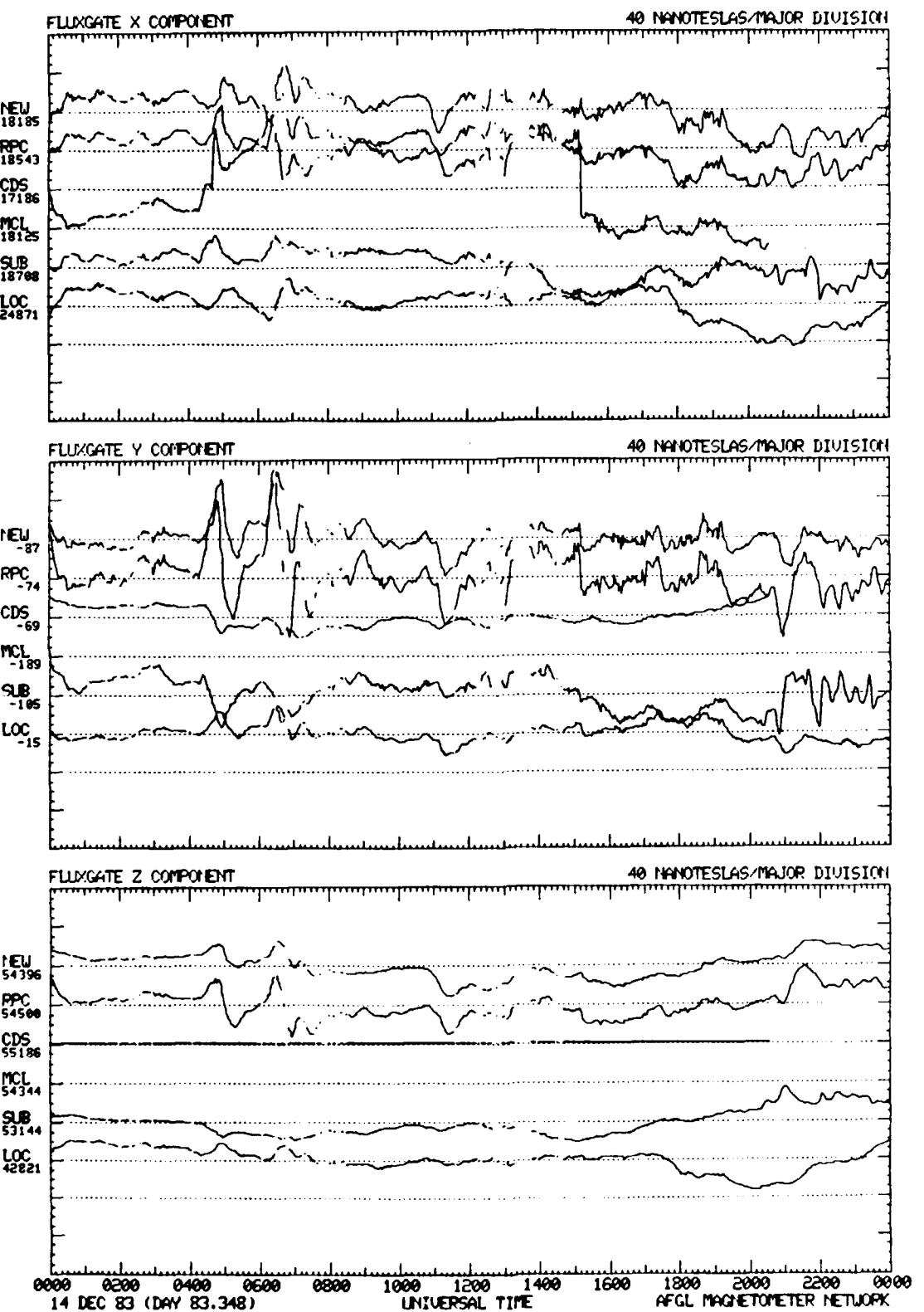
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
09 DEC 83 (DAY 83.343) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

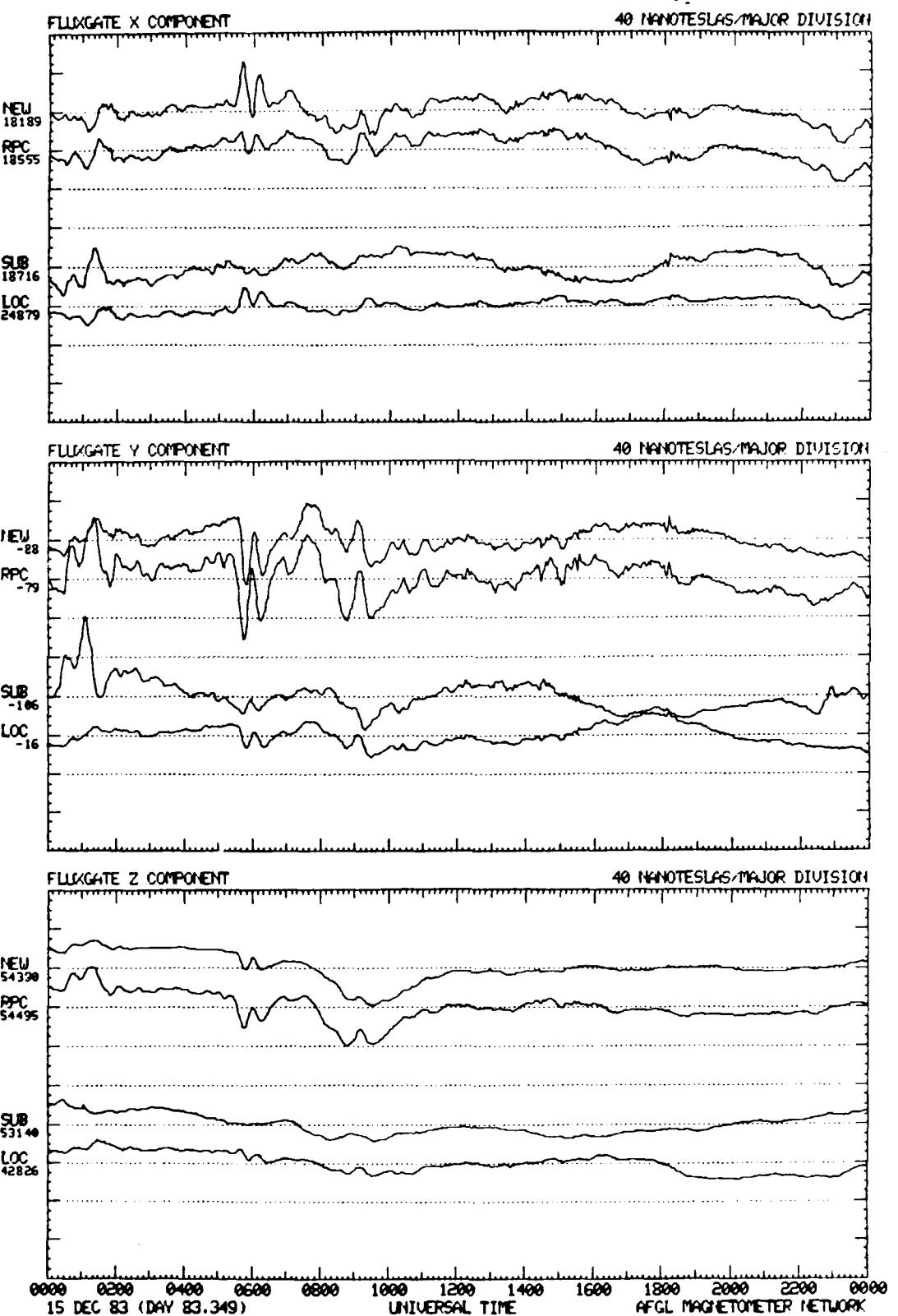


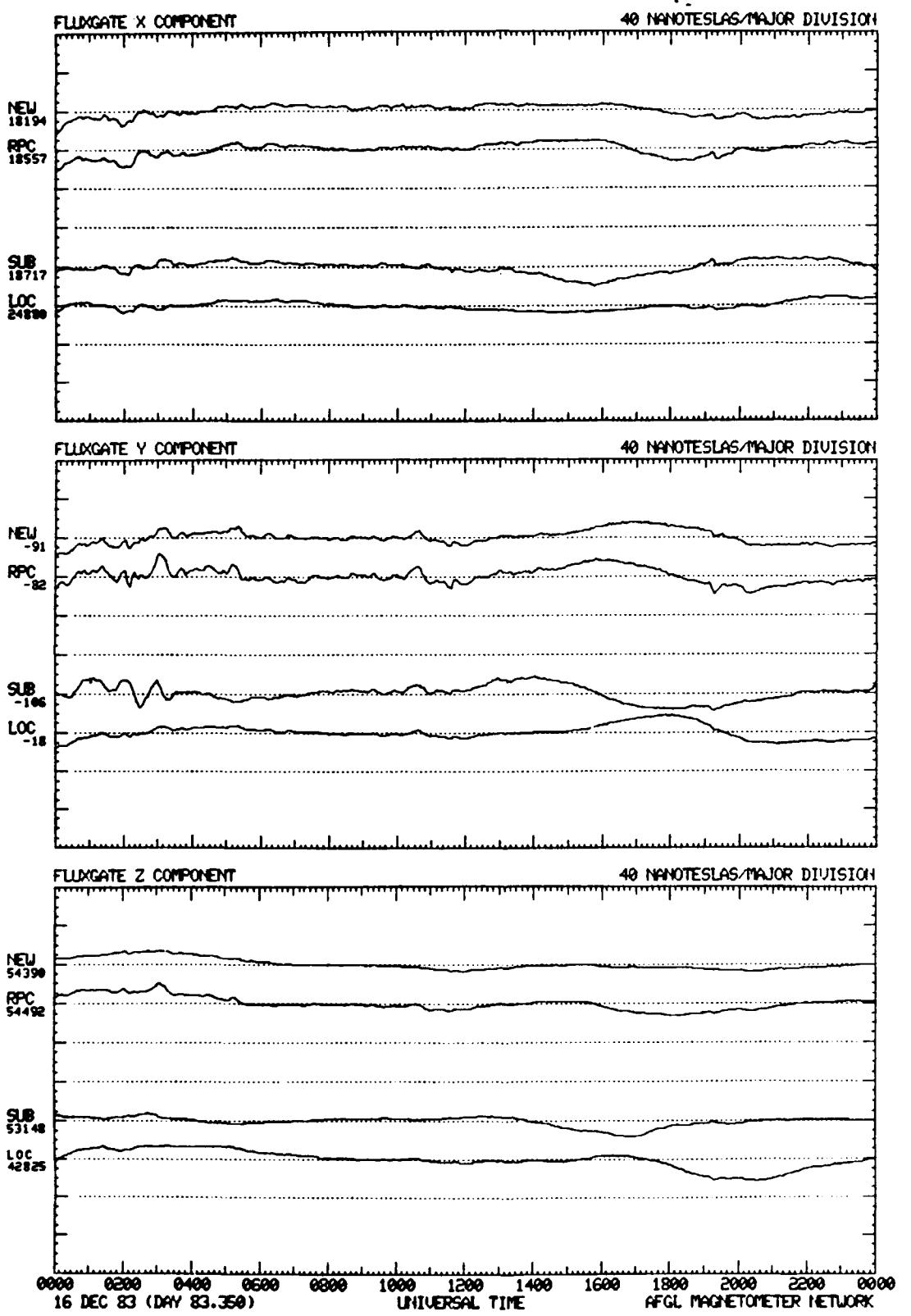


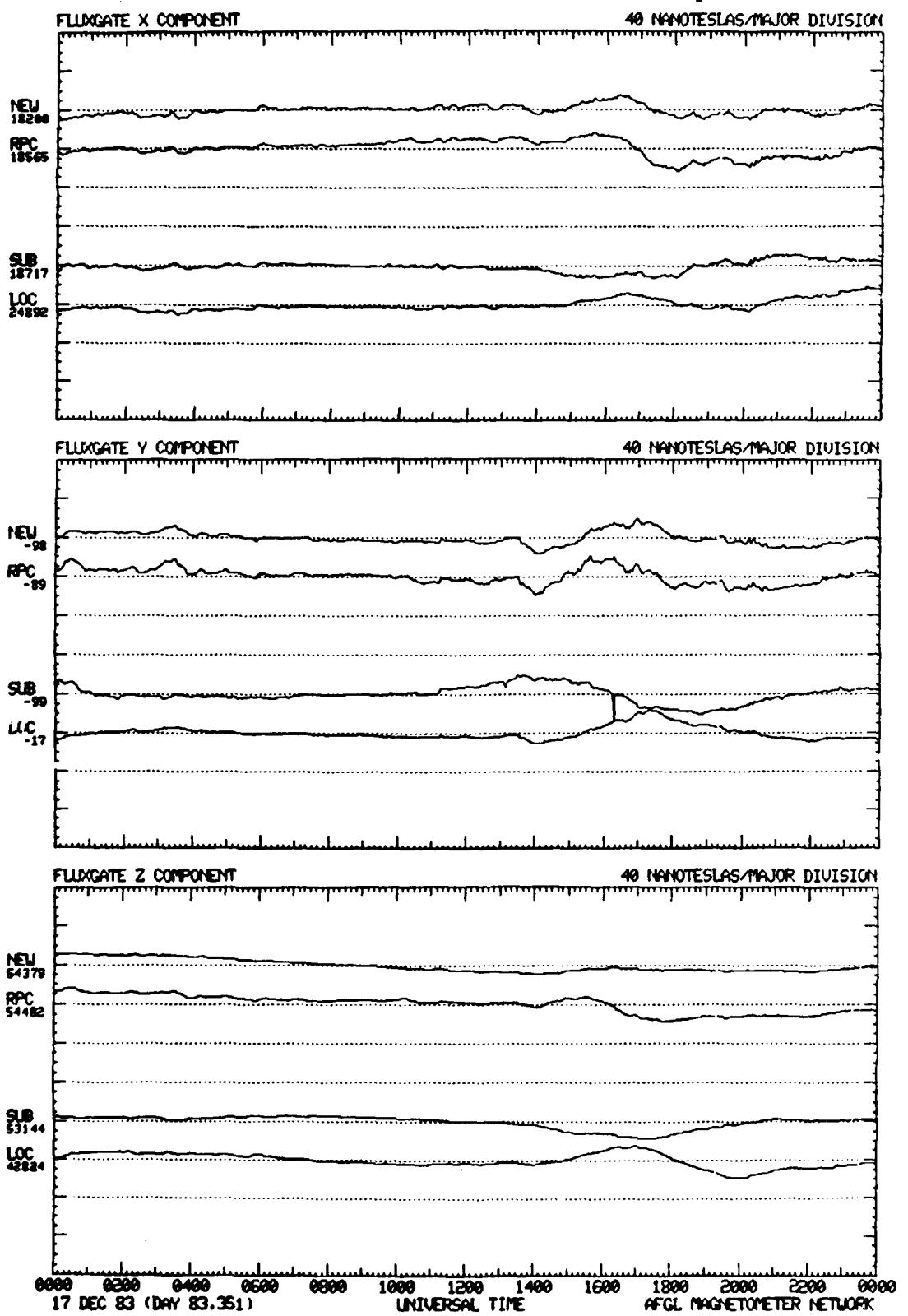












FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18203
RPC
18556SUB
18719
LOC
84898

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-101
RPC
-90SUB
-97
LOC
-1

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54377
RPC
54472SUB
53146
LOC
428200000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
18 DEC 83 (DAY 83.352) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18199RPC
18548SUB
18719LOC
24832

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
-98RPC
-91SUB
-98LOC
-19

FLUXGATE Z COMPONENT

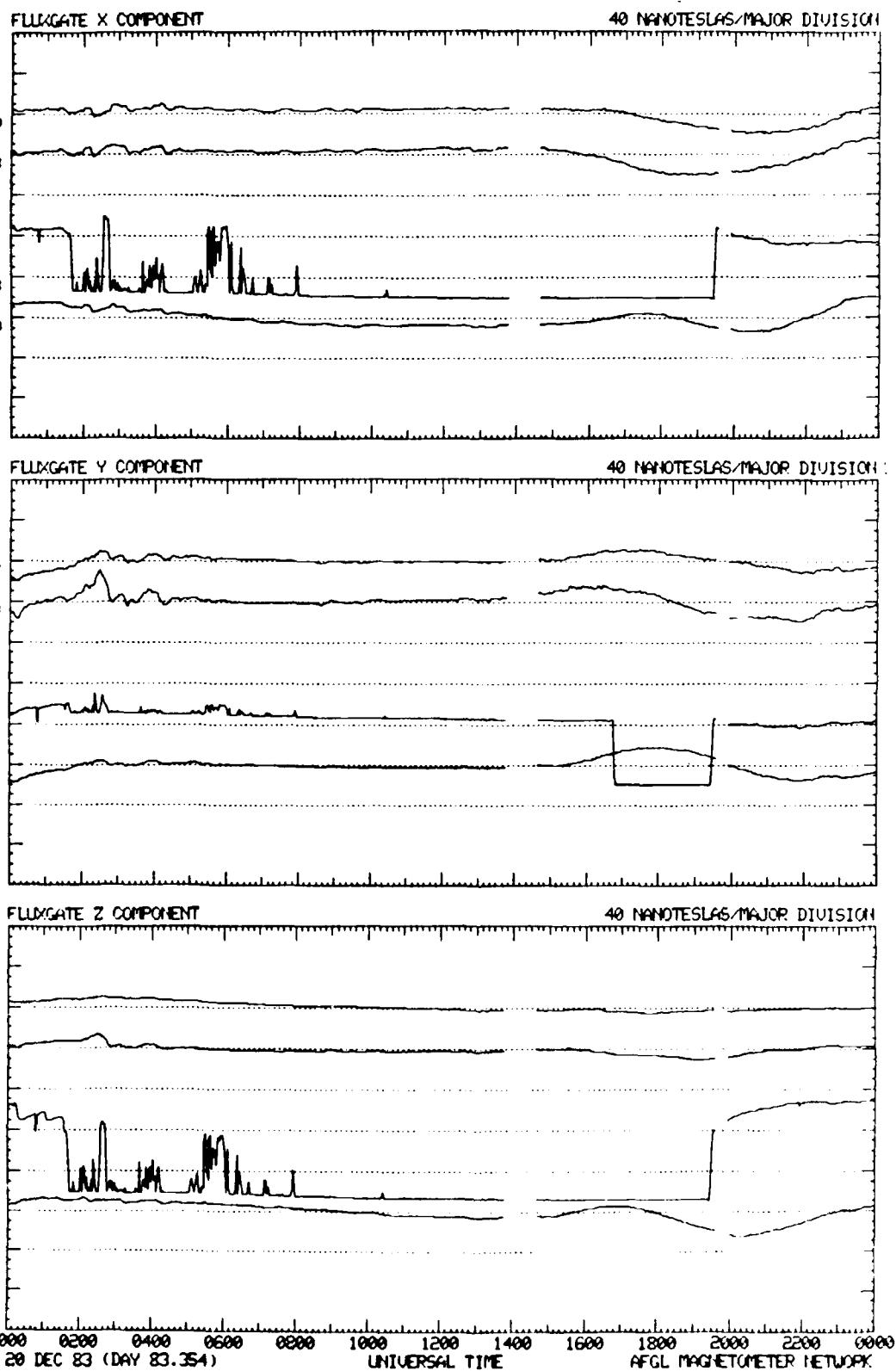
40 NANOTESLAS/MAJOR DIVISION

NEW
54378RPC
54470SUB
53141LOC
42814

19 DEC 83 (DAY 83.353)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18262
RPC
18561

SUB
18636
LOC
24881

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
-182
RPC
-98

SUB
-110
LOC
-19

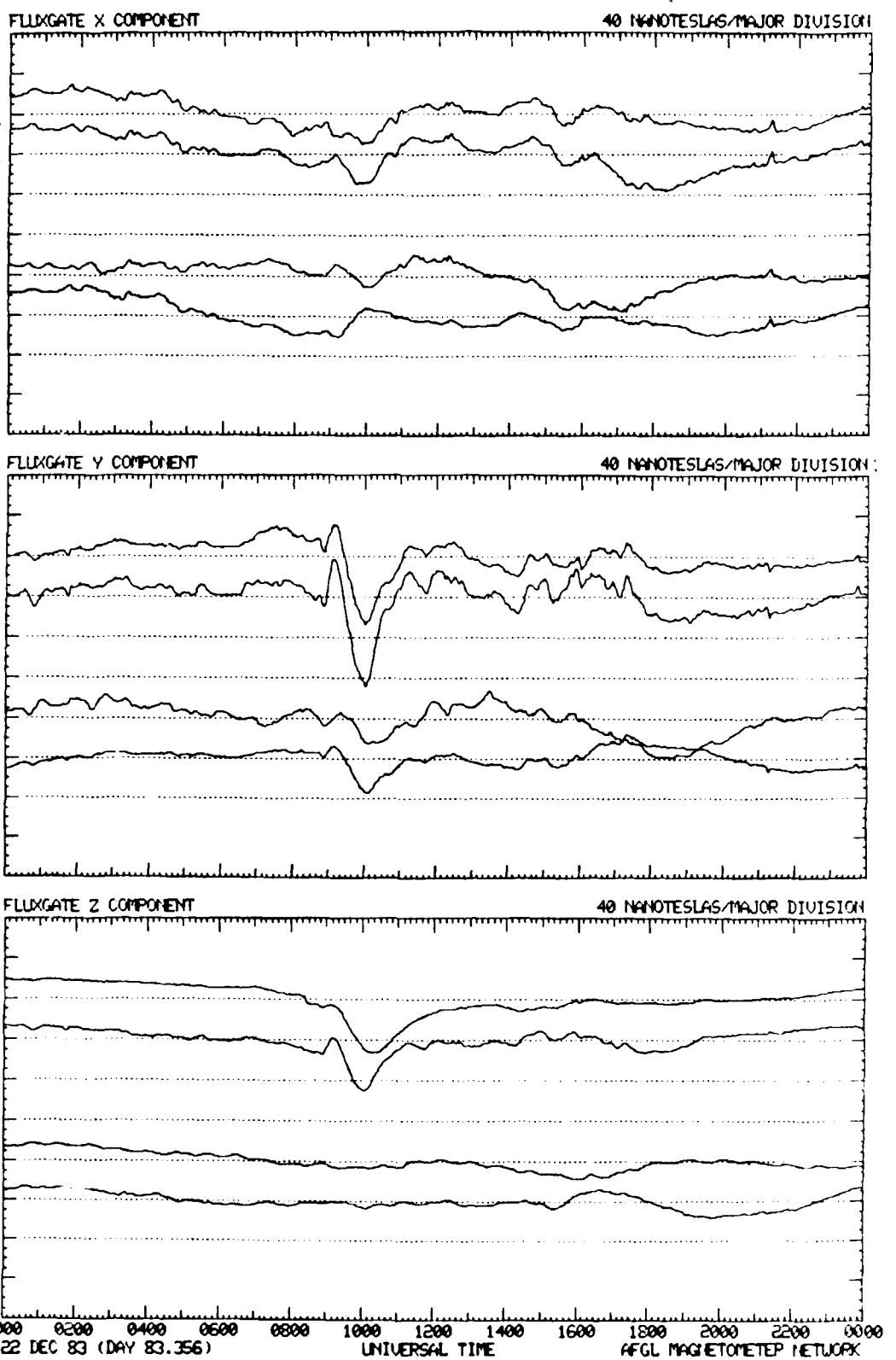
FLUXGATE Z COMPONENT

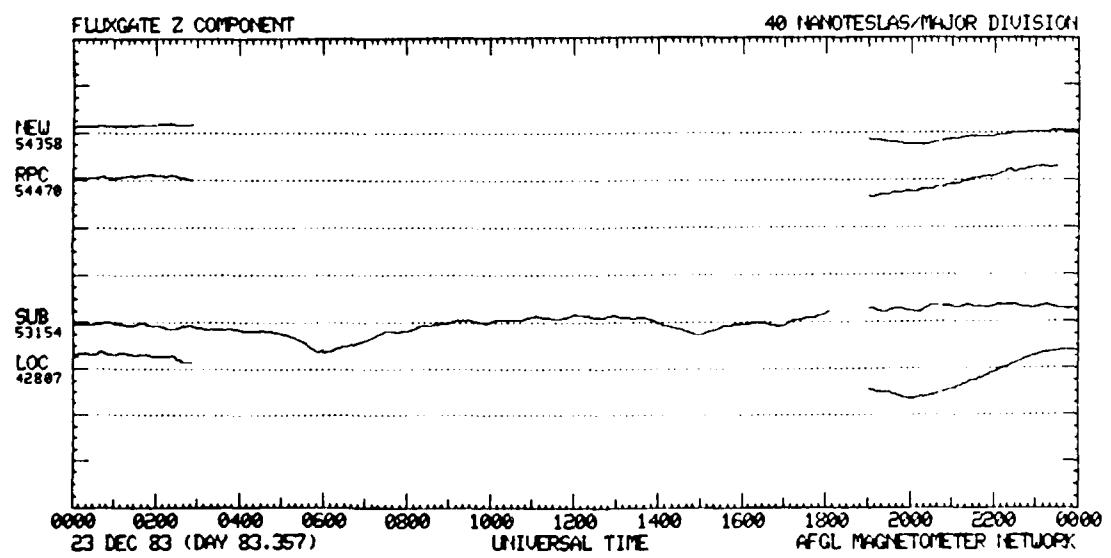
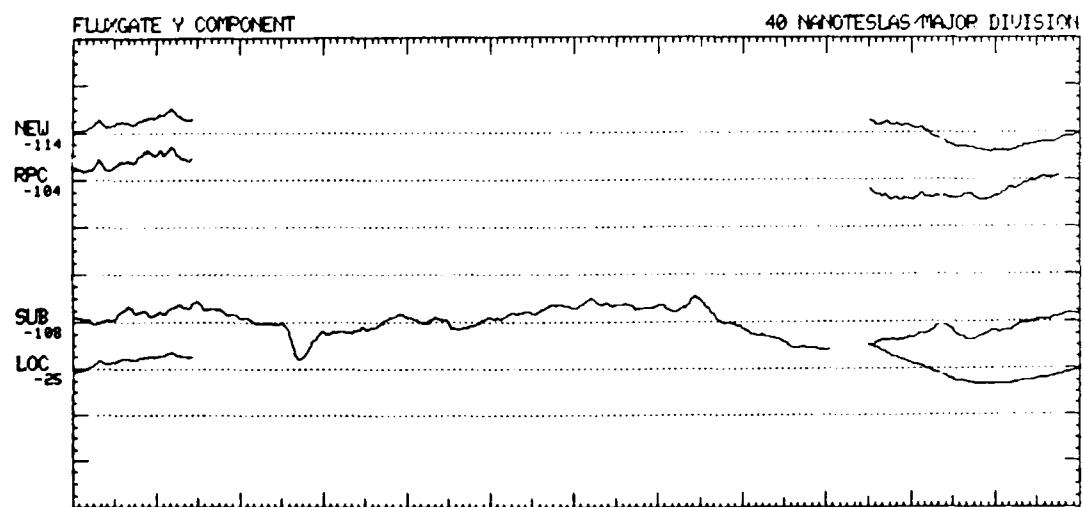
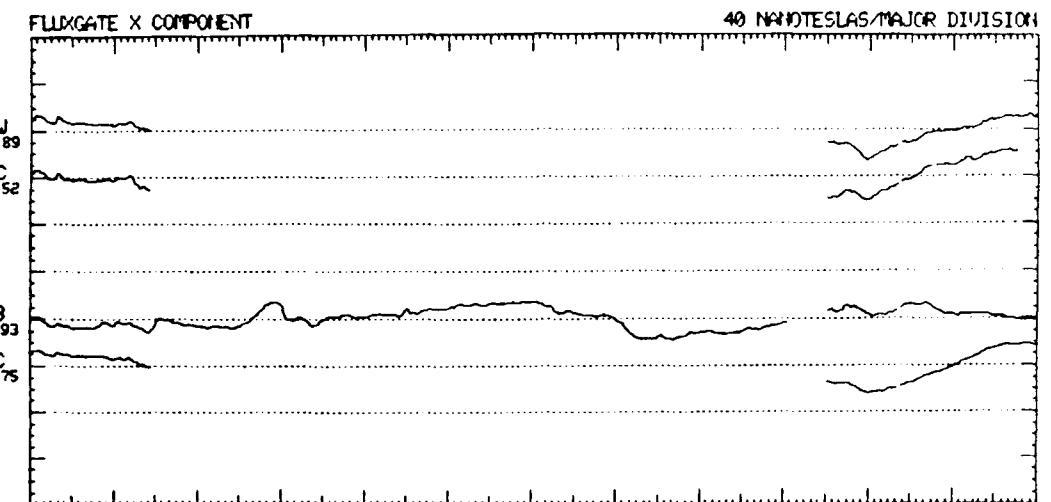
40 NANOTESLAS/MAJOR DIVISION

NEU
54367
RPC
54468

SUB
53172
LOC
42869

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
21 DEC 83 (DAY 83,355) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK





0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
23 DEC 83 (DAY 83.357) UNIVERSAL TIME AFCL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
18195
RPC
18533SUB
1869
LOC
24888

FLUXGATE Y COMPONENT

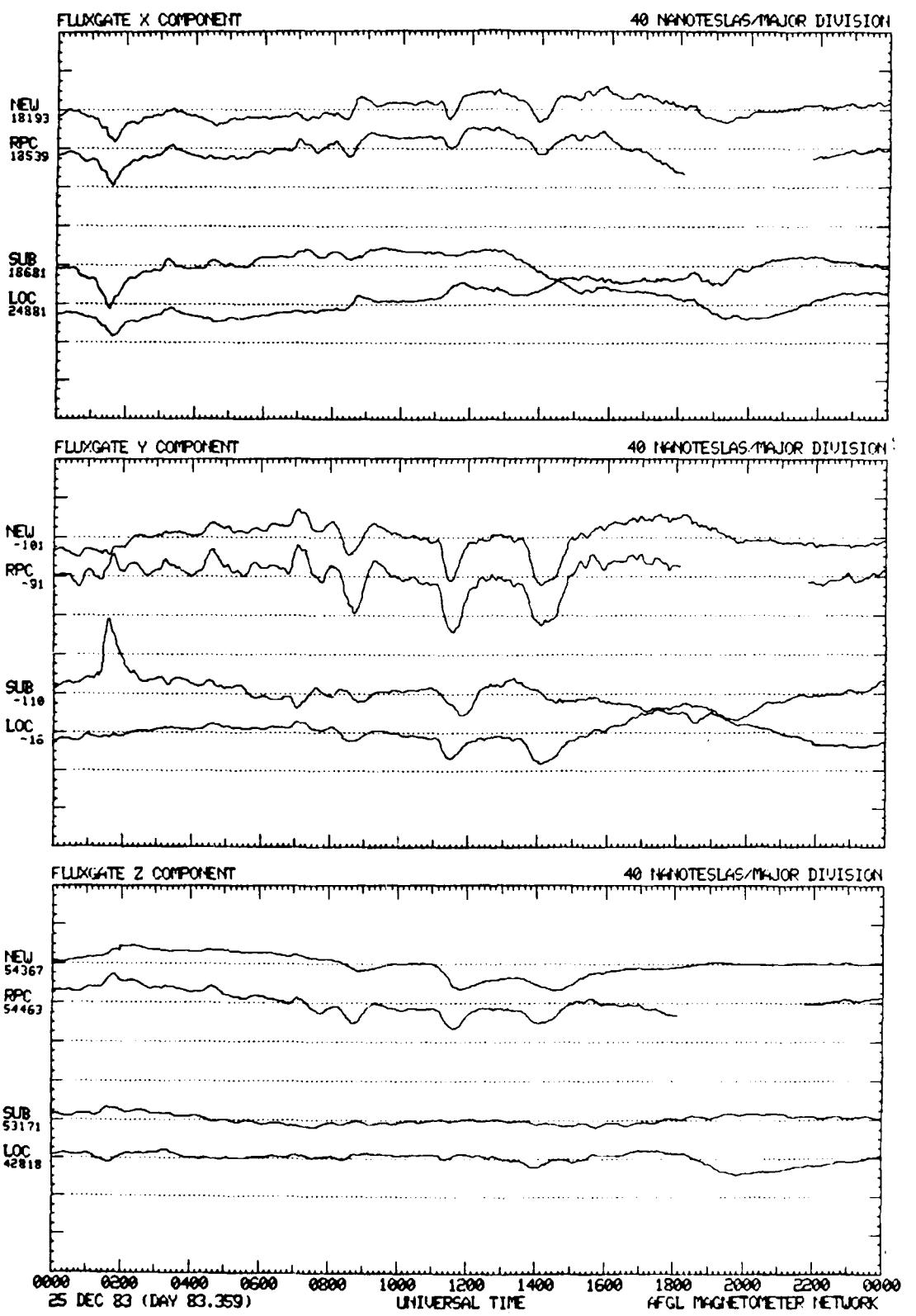
40 NANOTESLAS/MAJOR DIVISION

NEW
-12
RPC
-118SUB
-112
LOC
-26

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW
54347
RPC
54458SUB
53165
LOC
428990000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
24 DEC 83 (DAY 83.358) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW

18197

RPC

18539

SUB

18684

LOC

24886

FLUXGATE Y COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW

-96

RPC

-87

SUB

-108

LOC

-15

FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEW

54371

PPC

54468

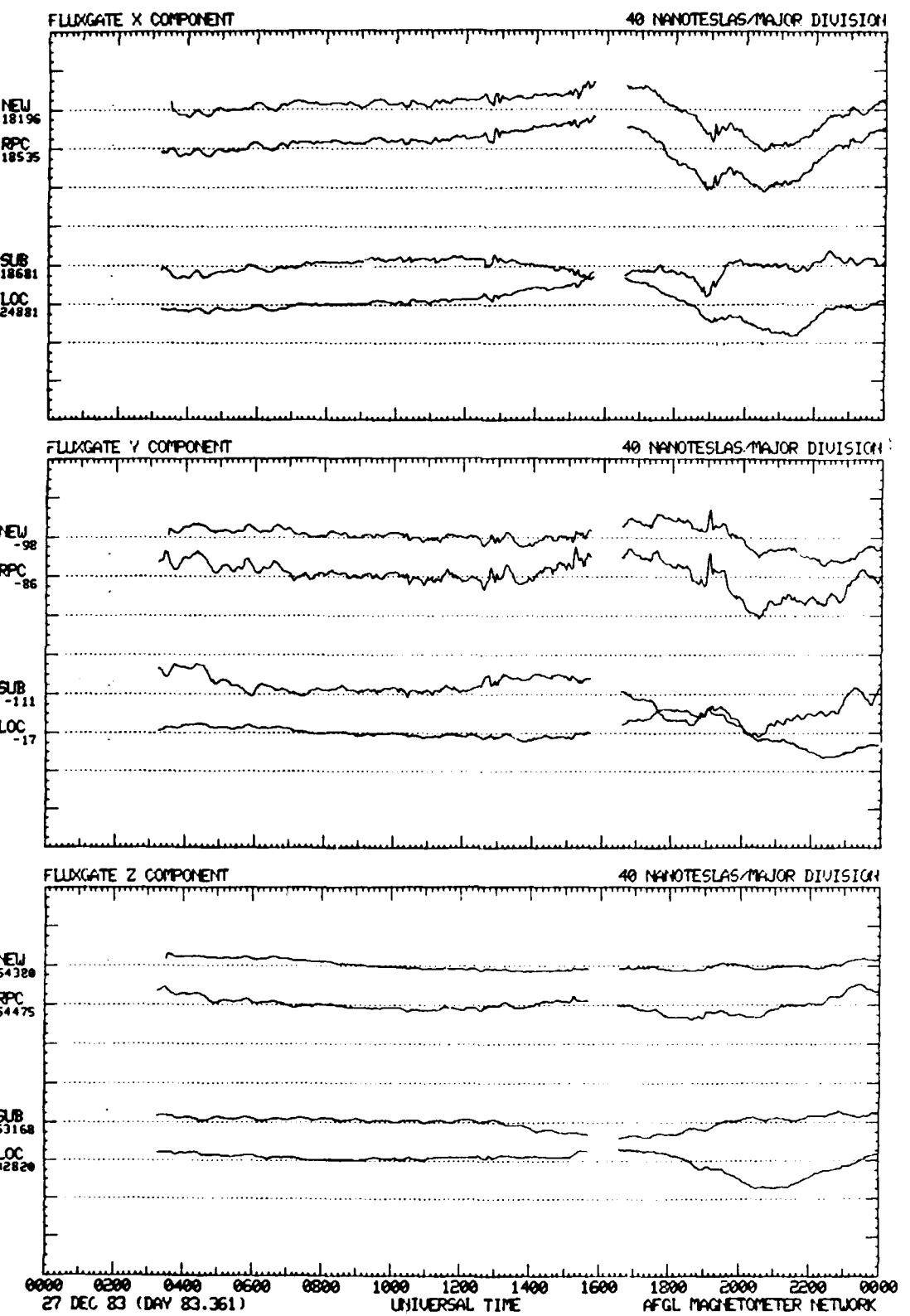
SUB

53169

LOC

42817

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300
26 DEC 23 (DAY 83.360) UNIVERSAL TIME AFGL MAGNETOMETER NETUCHY.



FLUXGATE X COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
18197RPC
12548SUB
18683LOC
24880

FLUXGATE Y COMPONENT

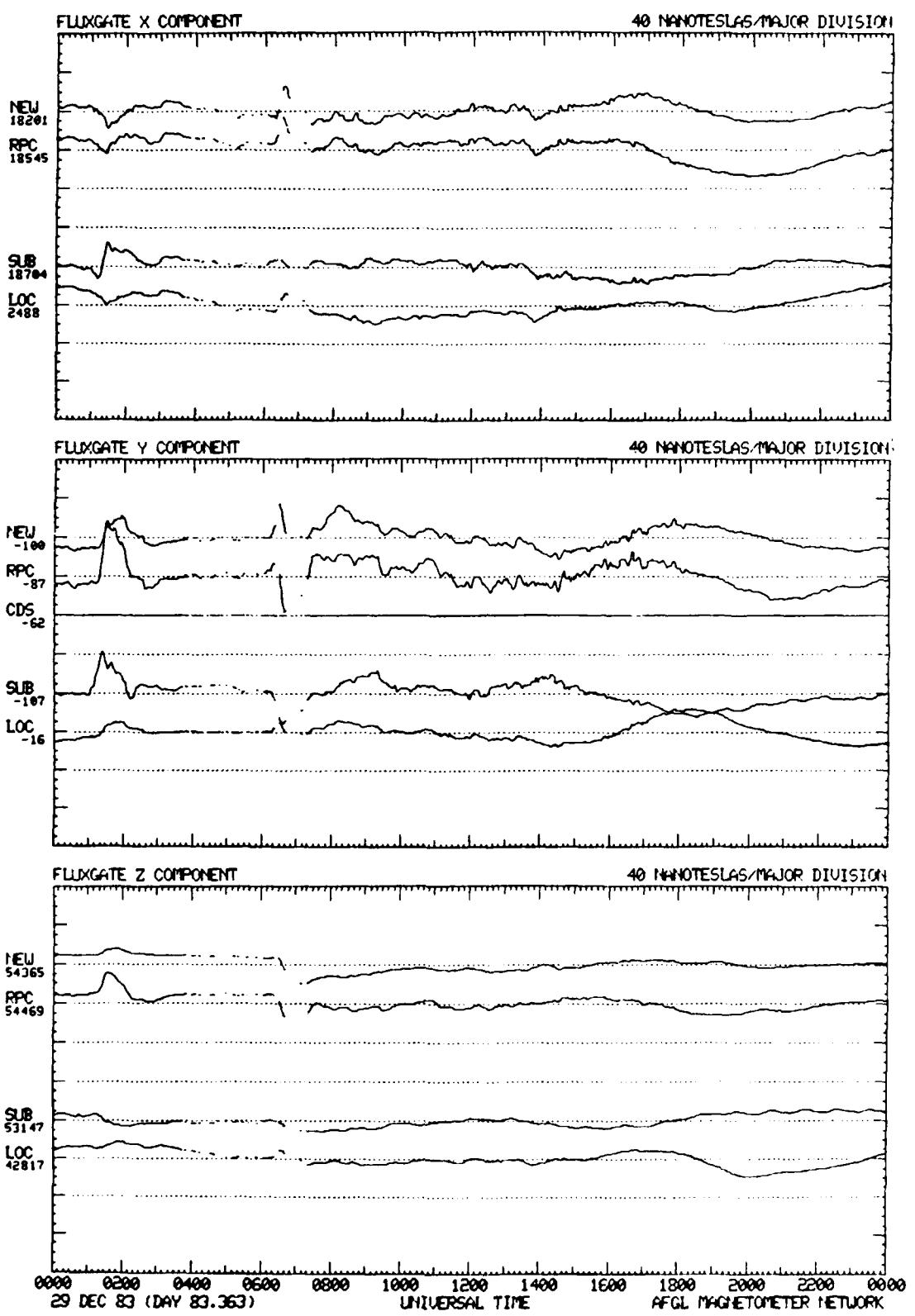
40 NANOTESLAS/MAJOR DIVISION

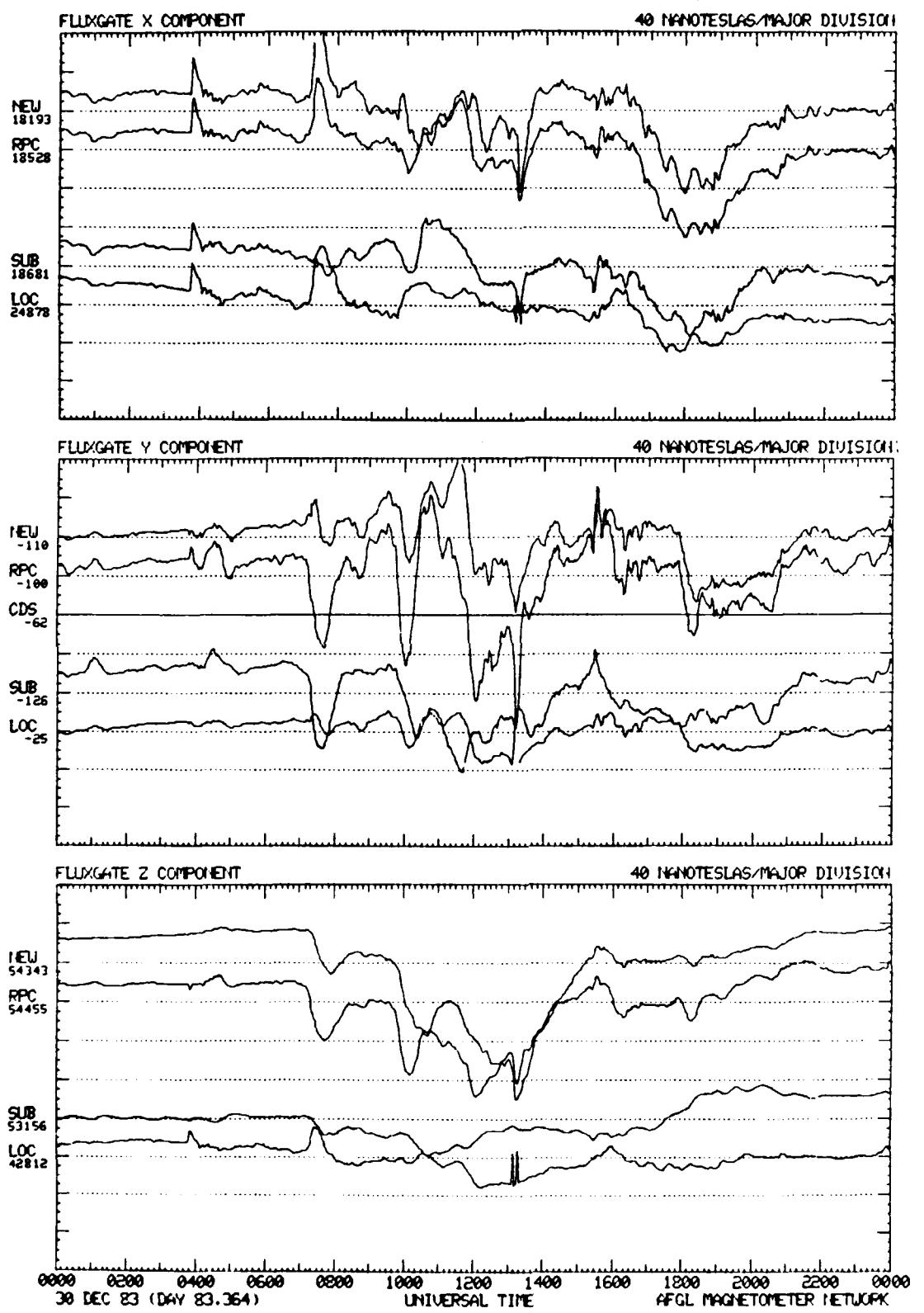
NEU
-195RPC
-91CDS
-64SUB
-198LOC
-16

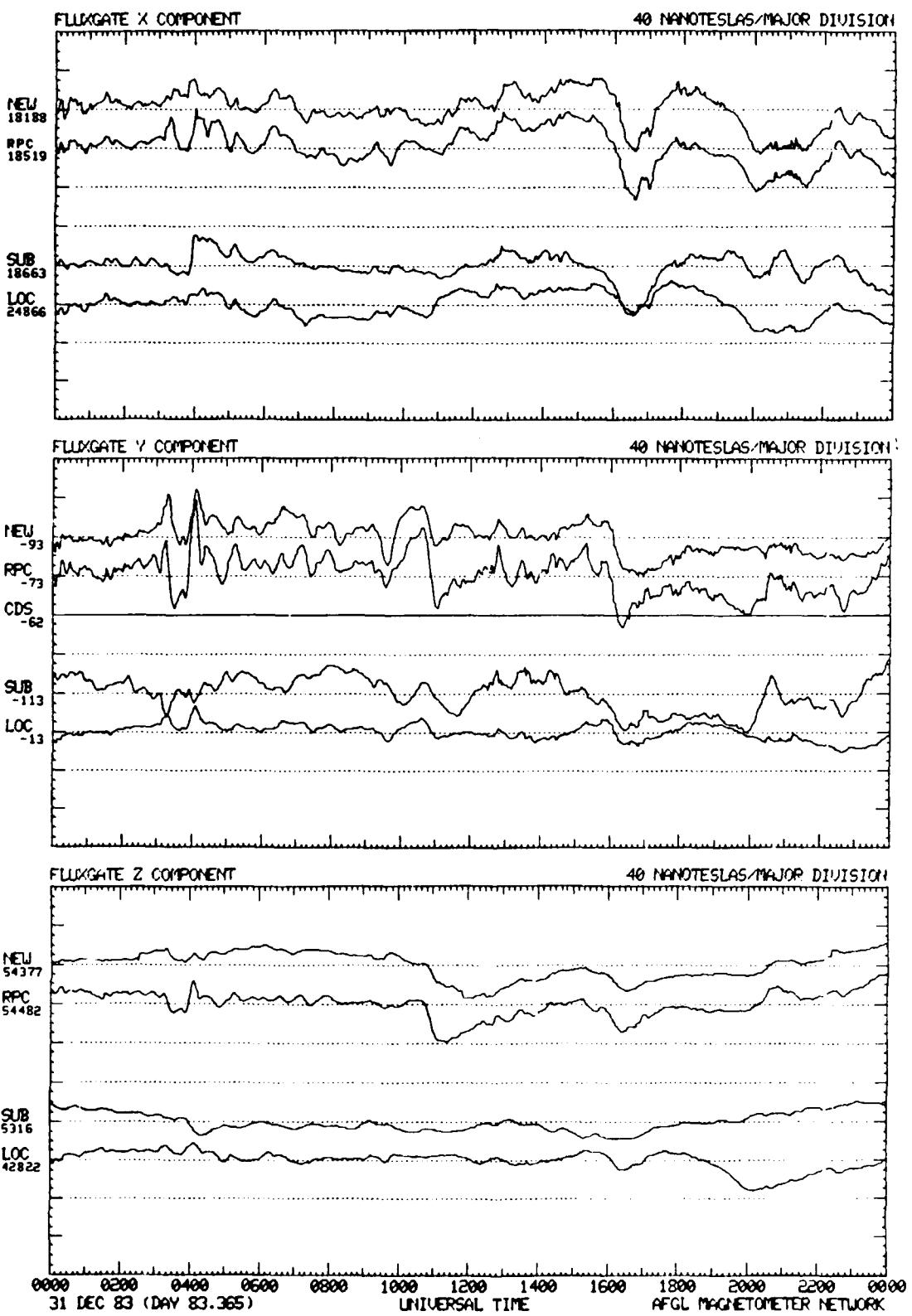
FLUXGATE Z COMPONENT

40 NANOTESLAS/MAJOR DIVISION

NEU
54373PPC
5448SUB
53165LOC
428210000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
28 DEC 83 (DAY 23.362) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



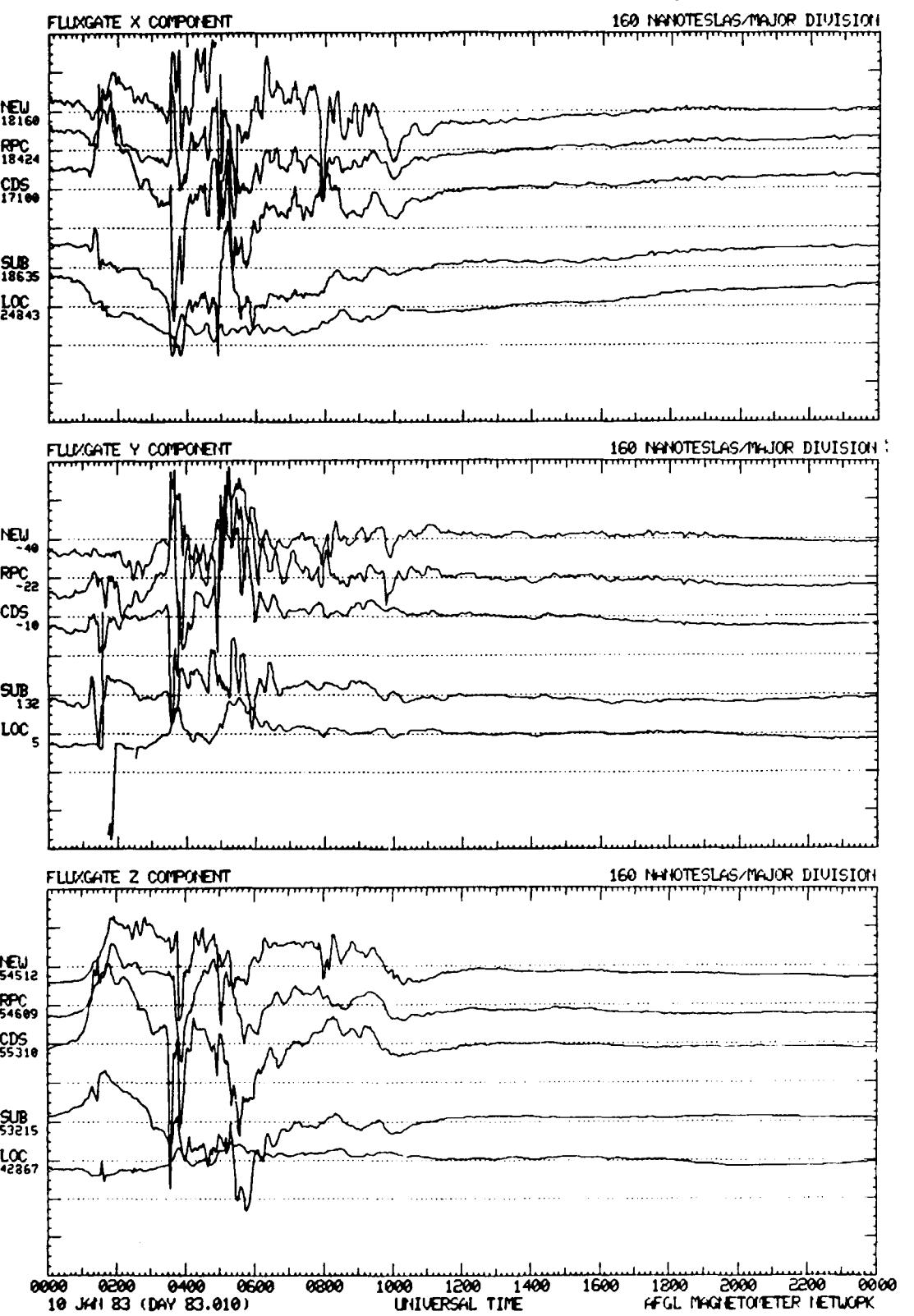




8. SUPPLEMENTARY PLOTS AT REDUCED AMPLITUDE

This section presents a stacked-magnetogram plot for each of the following days of 1983, using an amplitude scale of 160 or 140 nT per major division:

January	10
February	04, 05, 06, 07, 16
March	02, 03, 12, 13, 20, 25, 28, 29, 31
April	13, 15, 16, 22, 24, 30
May	11, 12, 13, 14, 17, 22, 24
June	13, 18
July	17, 24
August	08, 23, 25, 26
September	19, 20
October	18
November	12, 17, 18
December	11



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18155
RPC
18470
CDS
17120
MCL
18187
SUB
18717
LOC
24912

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

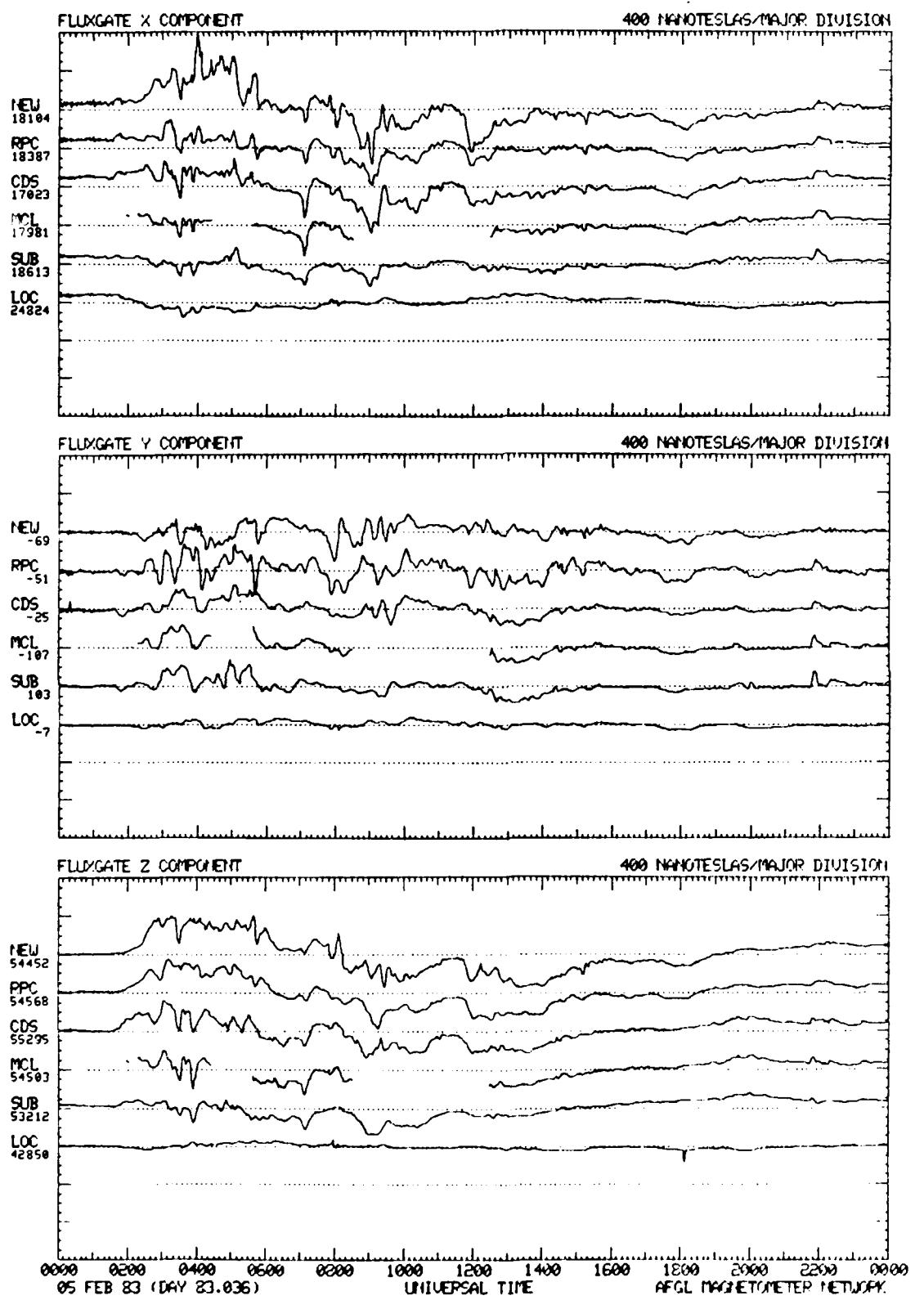
NEU
-53
RPC
-44
CDS
-21
MCL
-78
SUB
127
LOC
-3

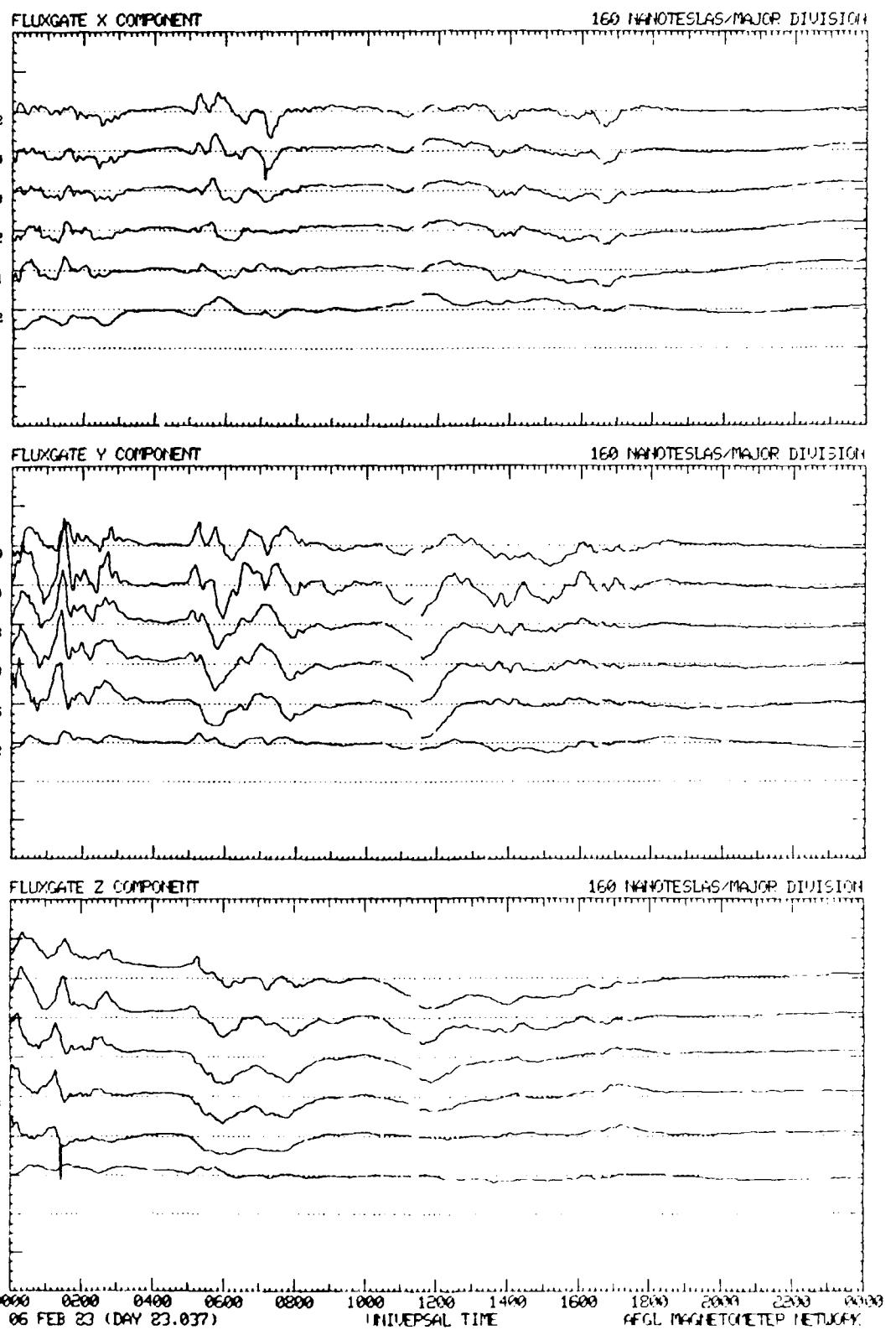
FLUXGATE Z COMPONENT

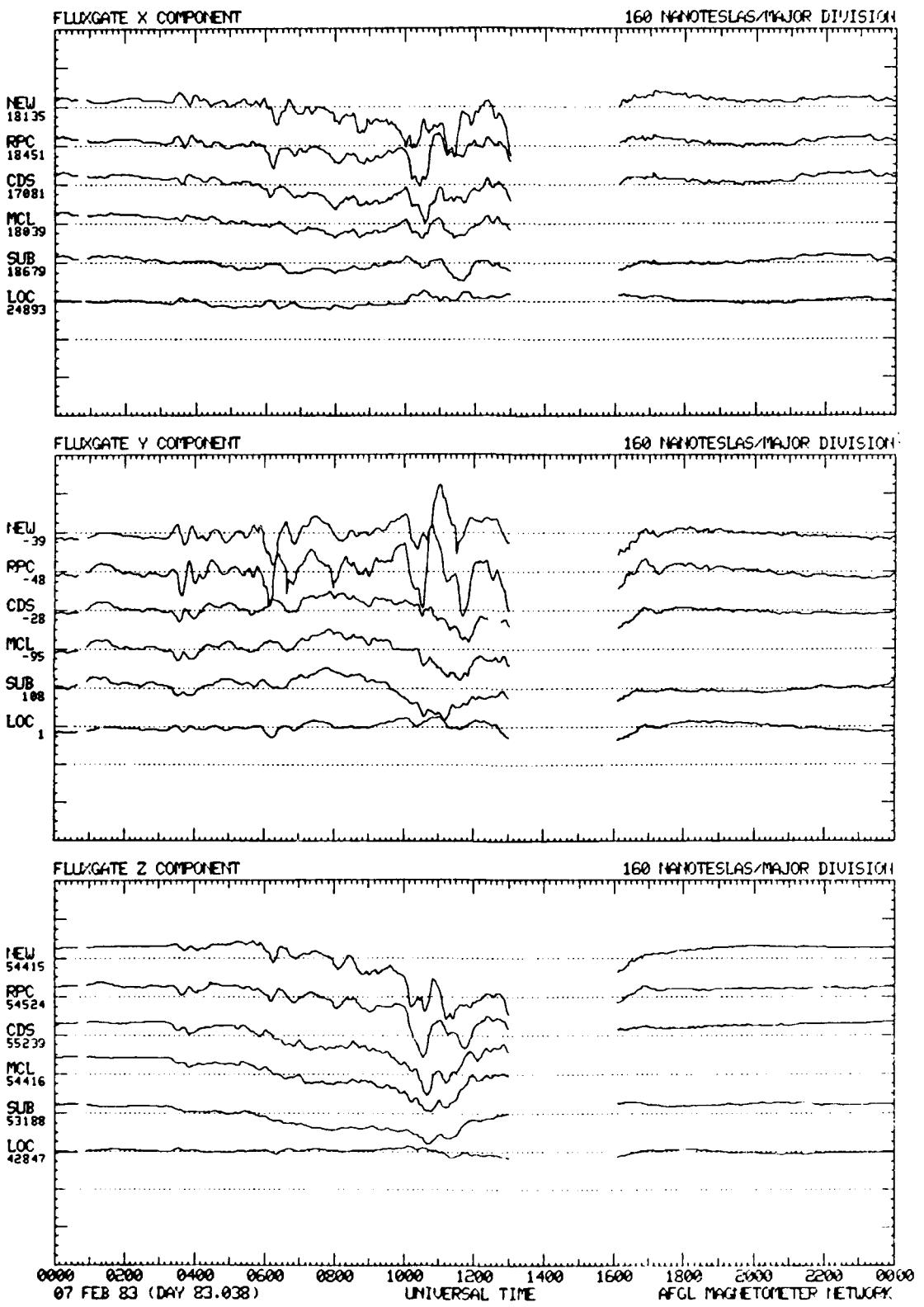
160 NANOTESLAS/MAJOR DIVISION

NEU
54433
PPC
54549
CDS
55231
MCL
54465
SUB
53217
LOC
42827

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
04 FEB 80 (DAY 83.035) UNIVERSAL TIME AFGL MAGNETOMETER NET/JAY







AD-A173 765

DAILY MAGNETOGRAMS FOR 1983 FROM THE AFGL (AIR FORCE
GEOPHYSICS LABORATORY) NETWORK(U) AIR FORCE GEOPHYSICS
LAB HANSCOM AFB MA D J KNECHT 21 MAR 85

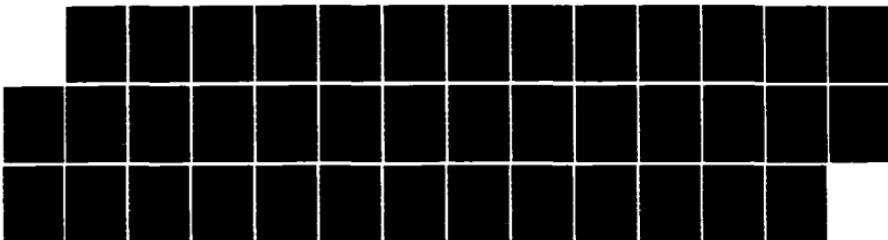
5/3

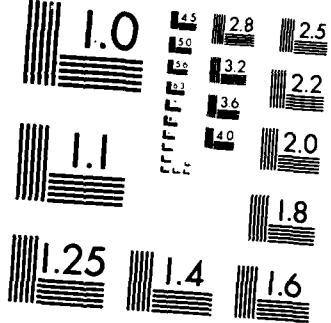
UNCLASSIFIED

AFGL-TR-85-0032

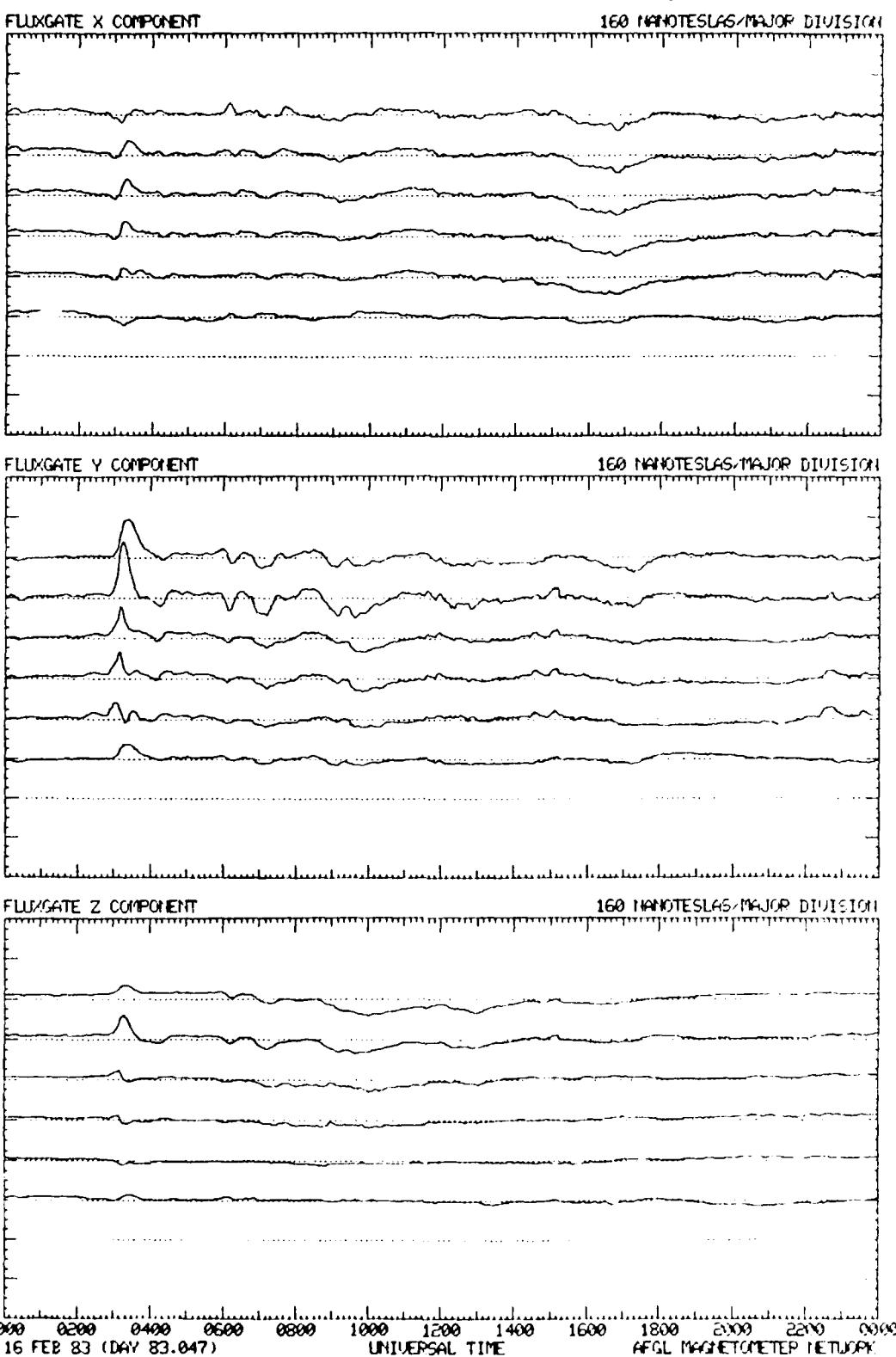
F/G 8/14

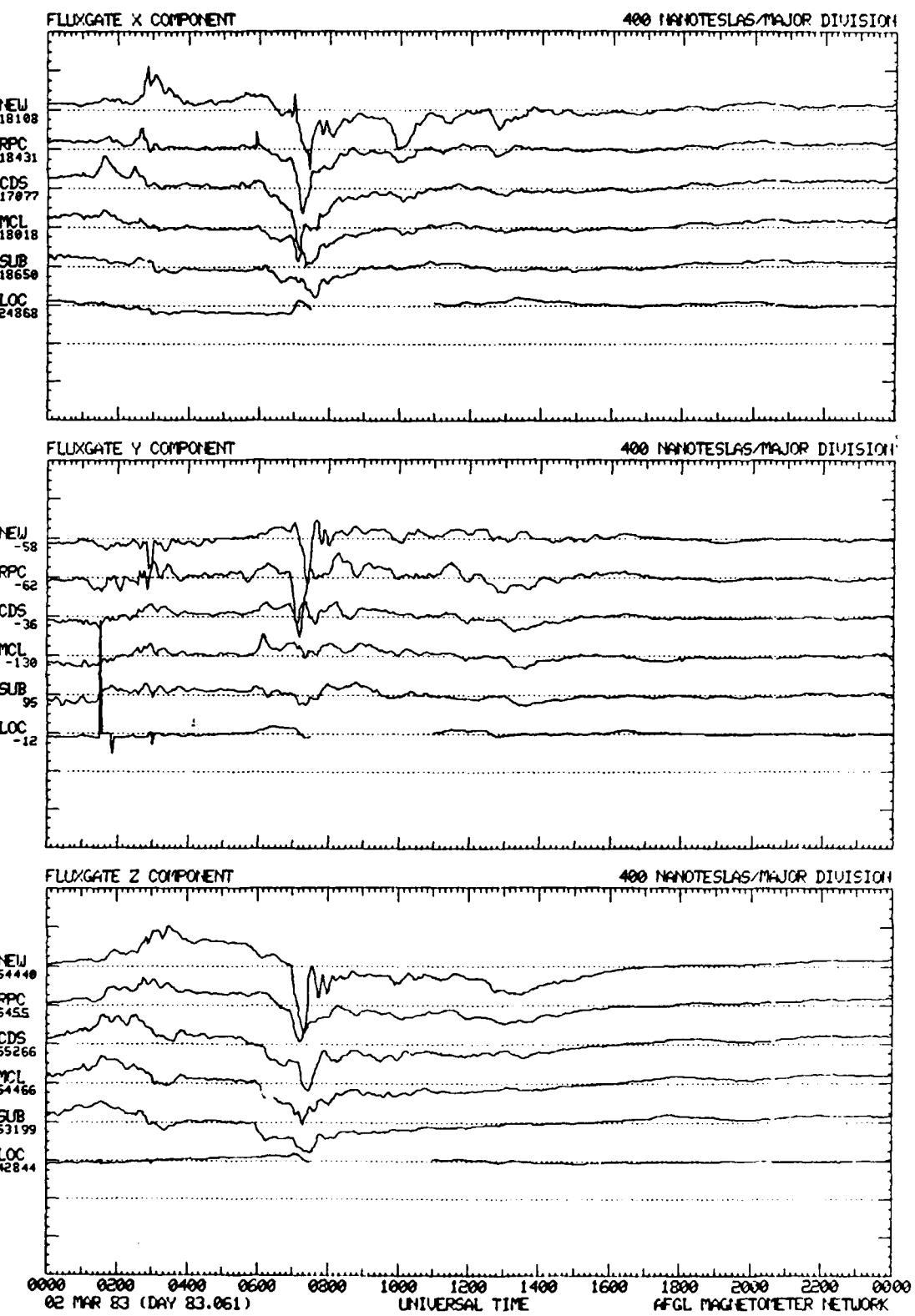
NL

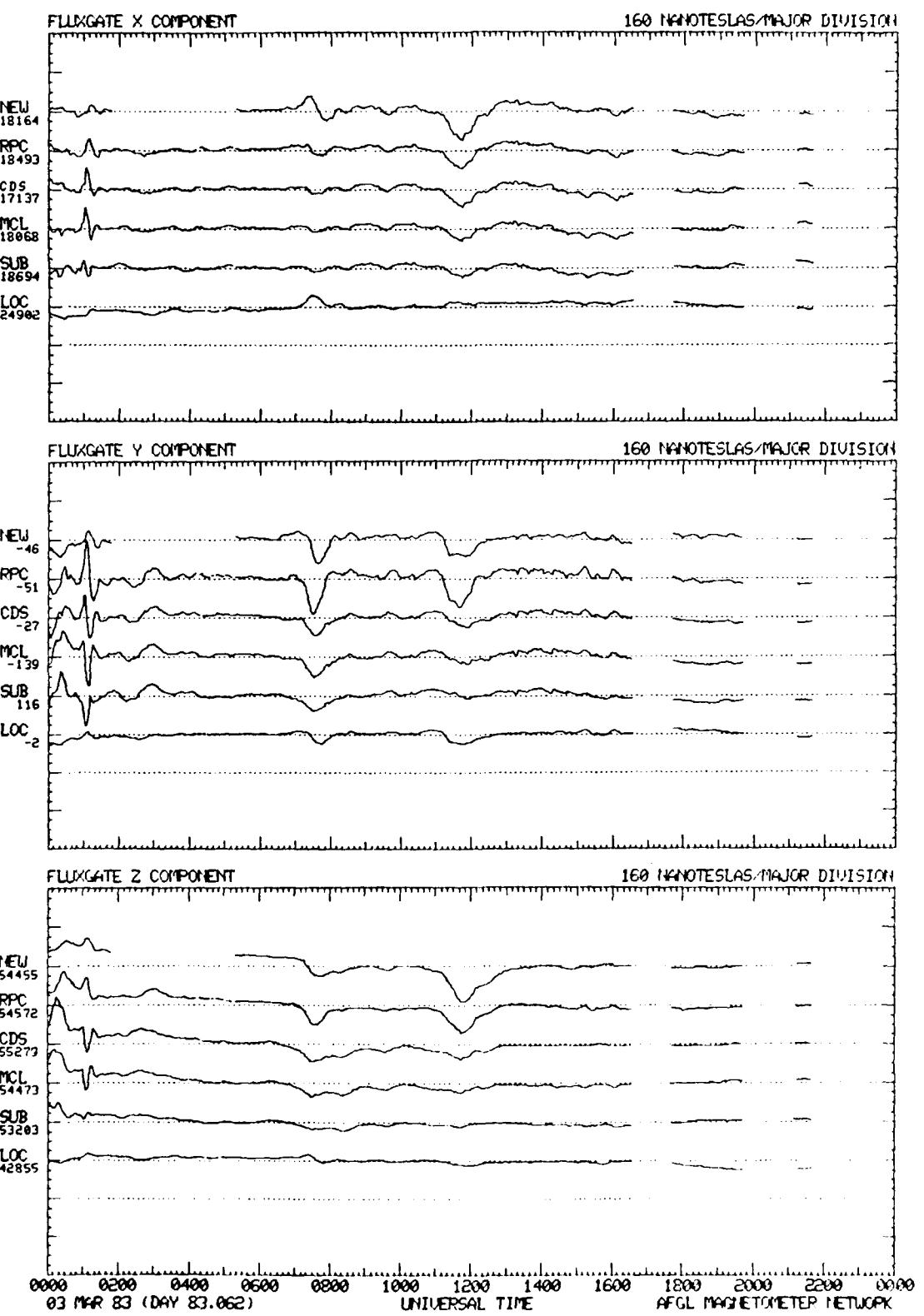


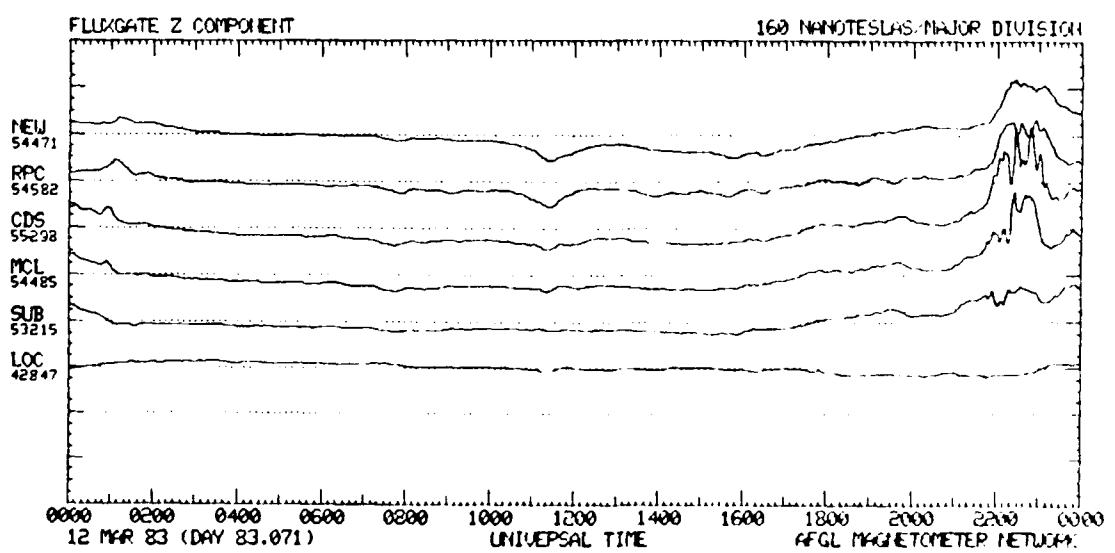
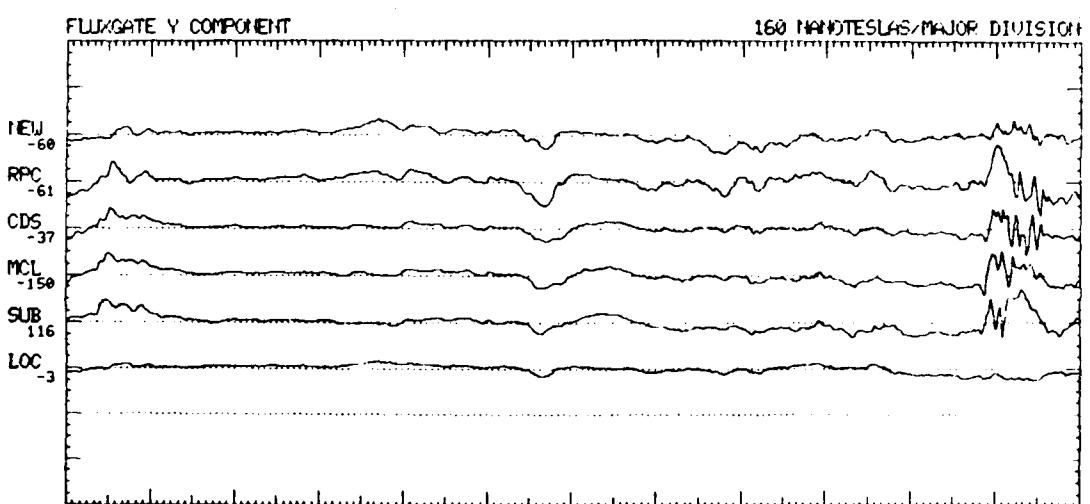
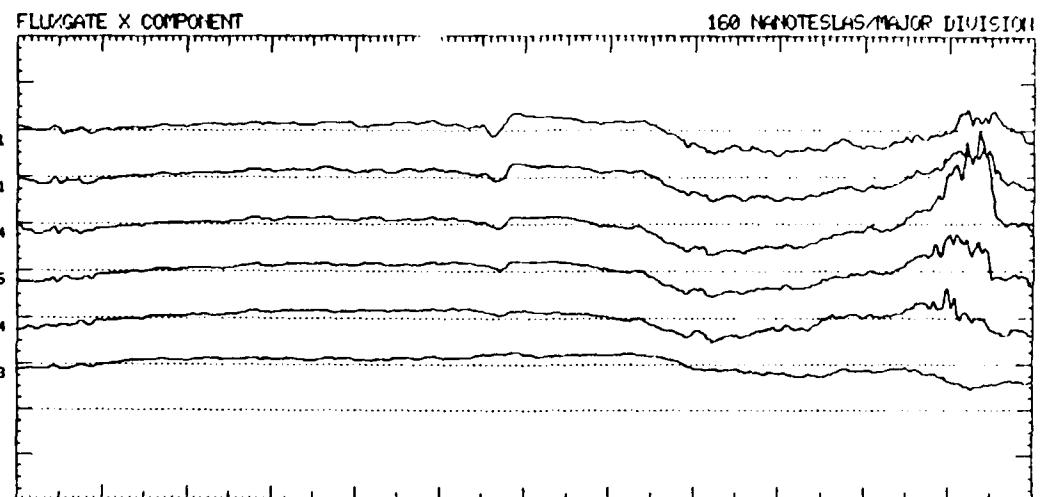


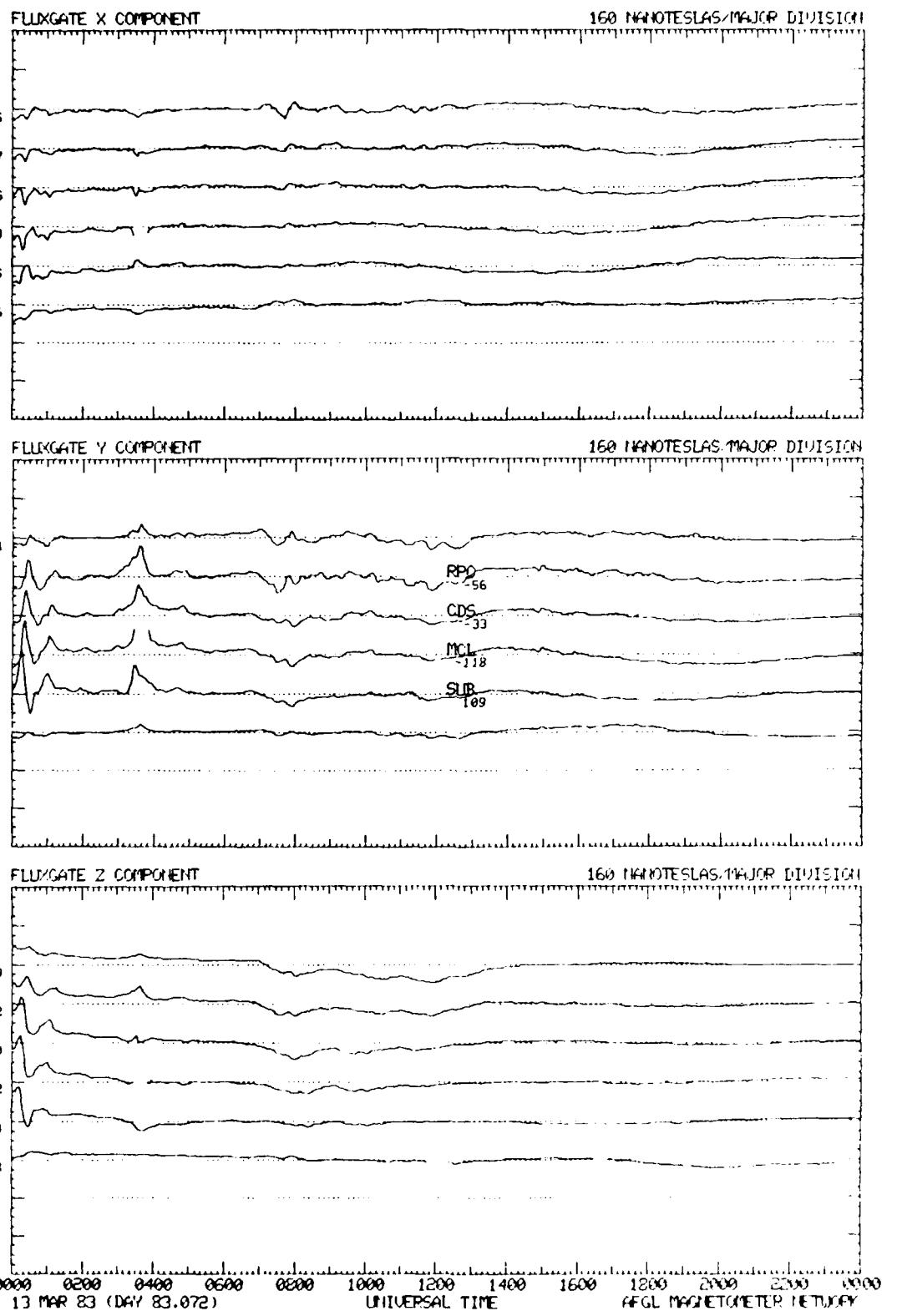
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

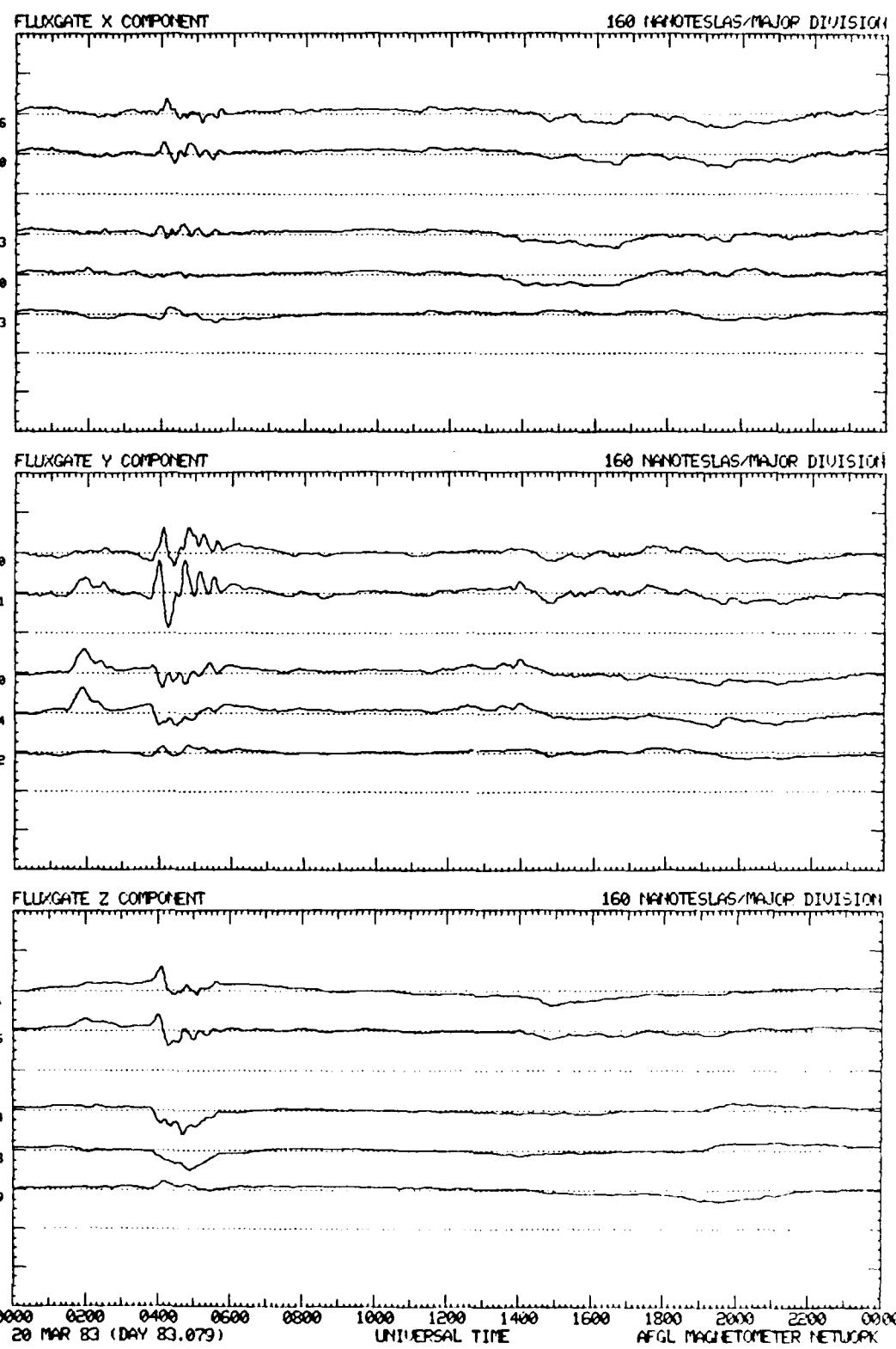


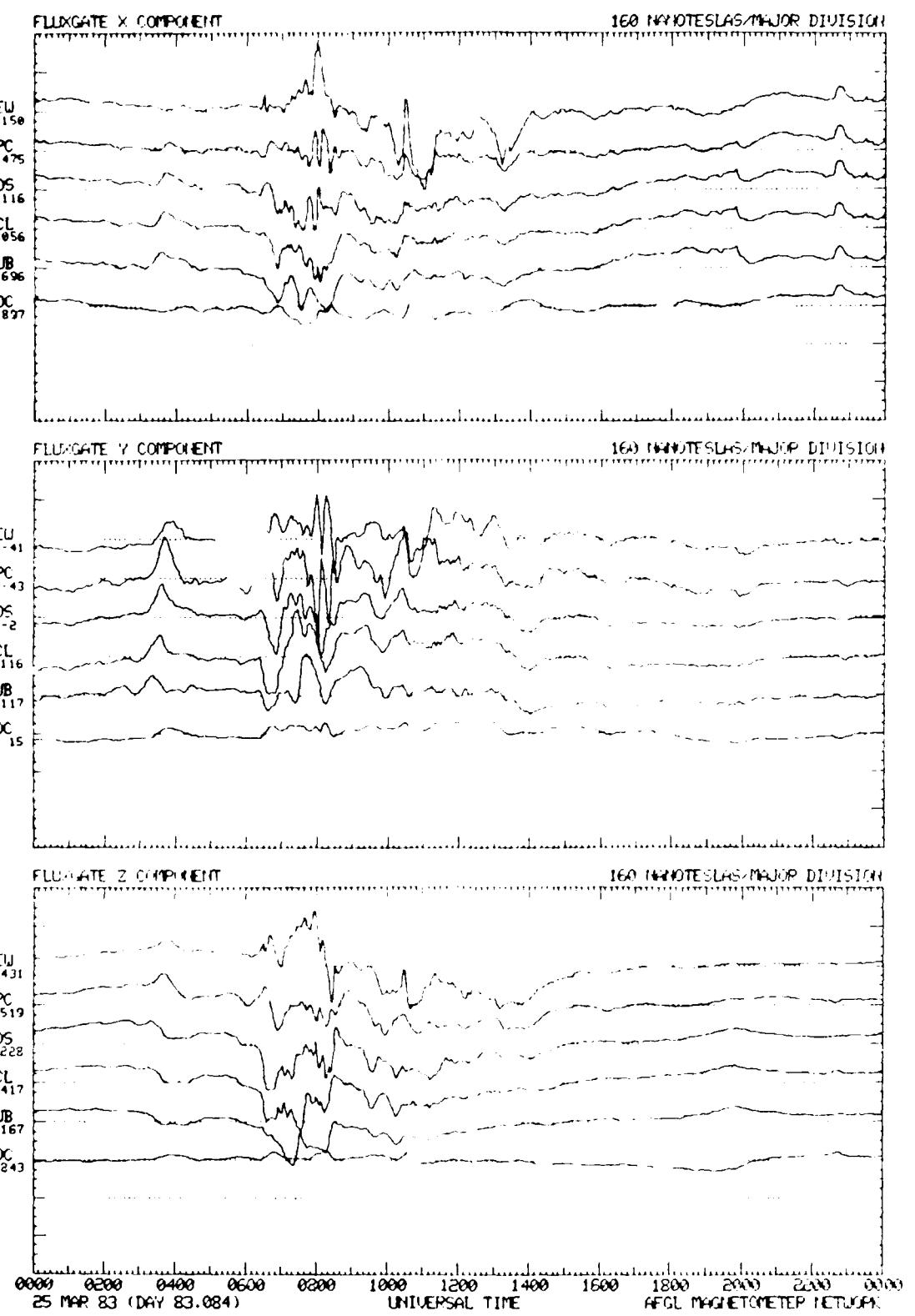












FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
1217
RPC
18491
CDS
17152
MCL
18095
SUB
18727
LOC
24913

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

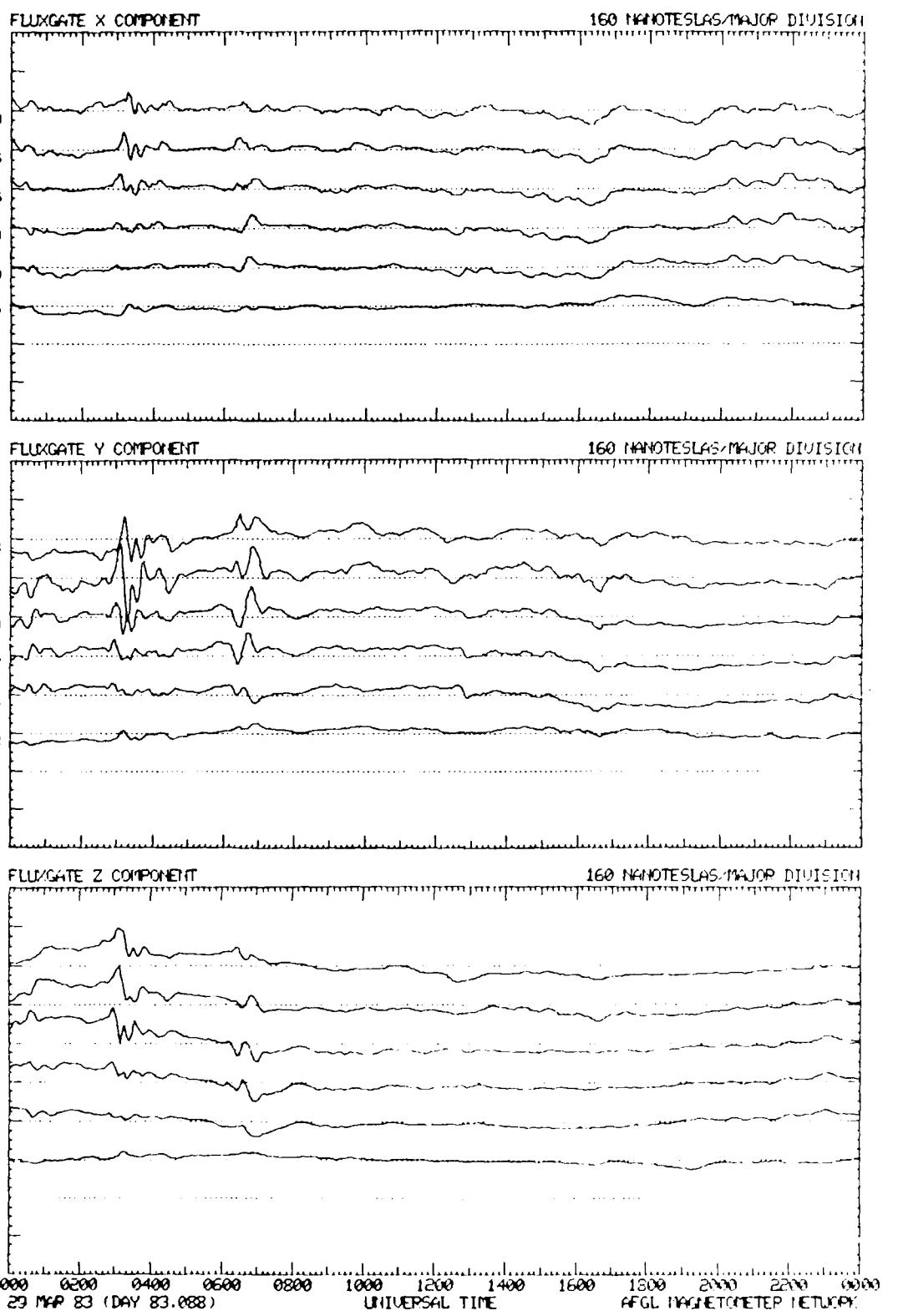
NEW
-60
RPC
-64
CDS
-41
MCL
-120
SUB
118
LOC

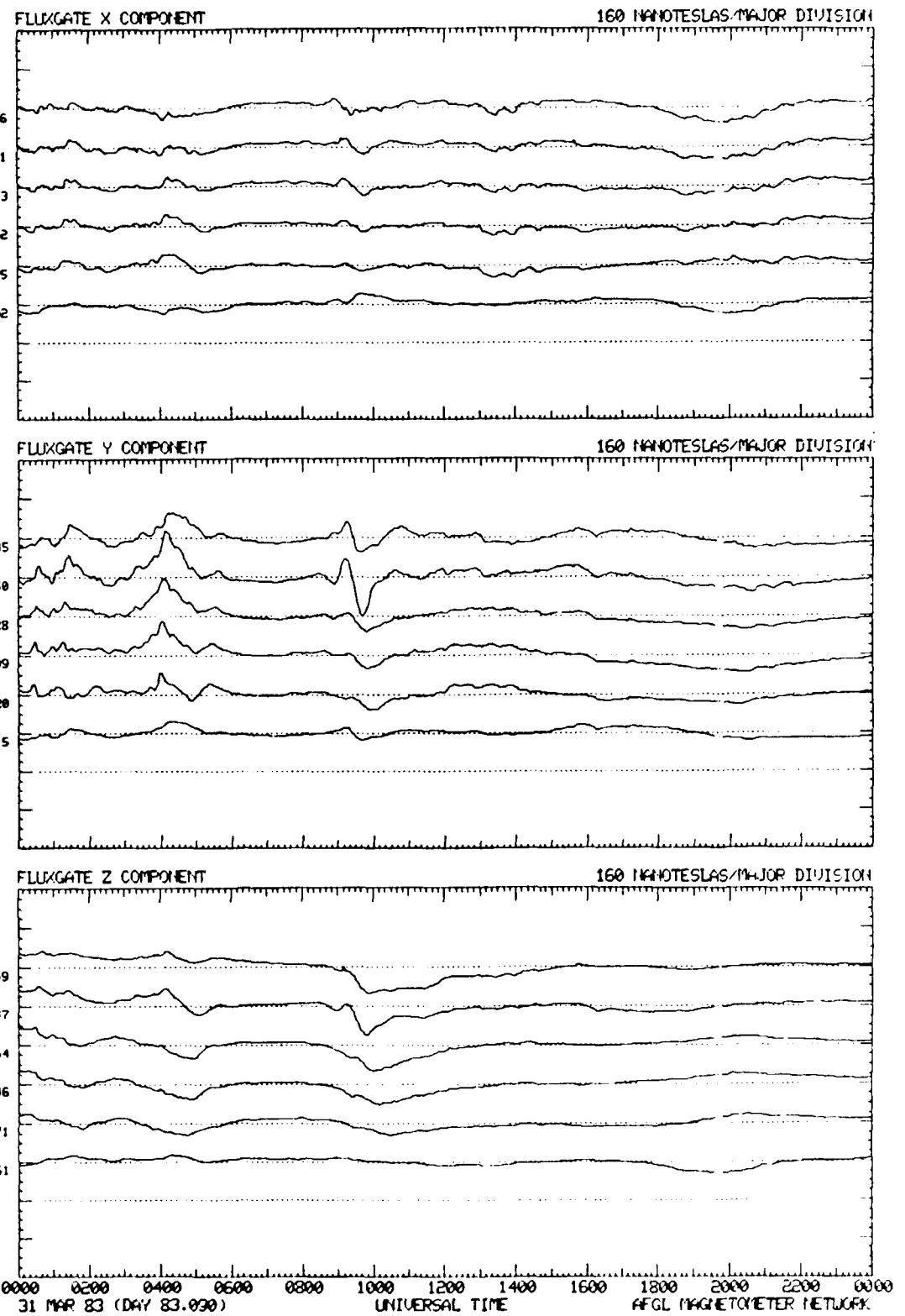
FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54427
RPC
54529
CDS
55249
MCL
54451
SUB
53177
LOC
42842

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 MAR 23 (DAY 83.087) UNIVERSAL TIME AFGL MAGNETOMETER NETWRS





FLUXGATE X COMPONENT

160 NANOTESLAS/MINOR DIVISION

NEU
18194
RPC
18514
CDS
17184
MCL
18120
SUB
18756
LOC
24987

FLUXGATE Y COMPONENT

160 NANOTESLAS/MINOR DIVISION

NEU
-61
RPC
-70
CDS
-40
MCL
-159
SUB
127
LOC
?

FLUXGATE Z COMPONENT

160 NANOTESLAS/MINOR DIVISION

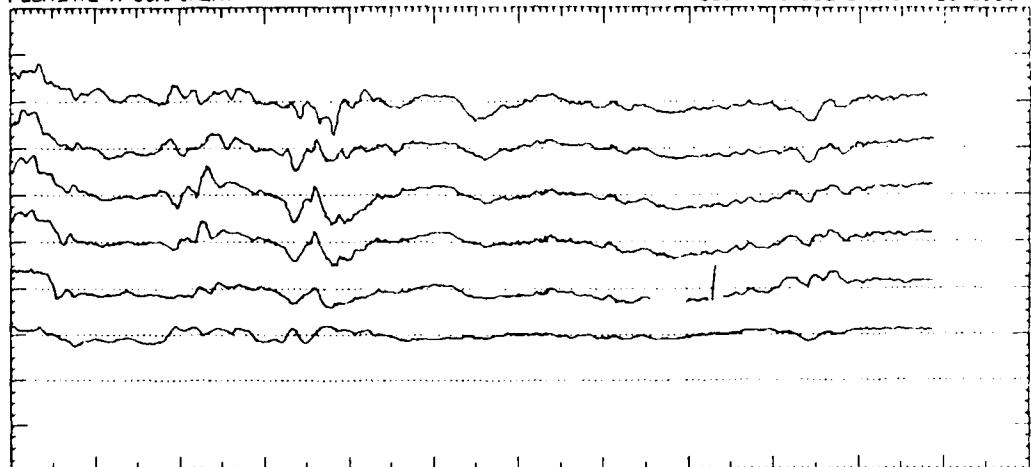
NEU
54427
RPC
54524
CDS
55231
MCL
54441
SUB
53169
LOC
42847

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300 0000
13 APR 83 (DAY 83.103) UNIVERSAL TIME AFGL MAGNETOMETER NET KEY

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

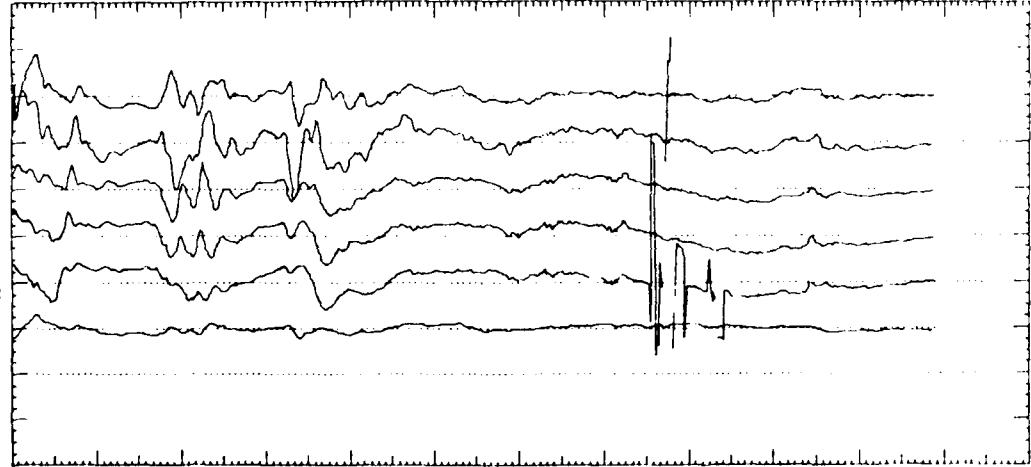
NEW
12179
RPC
18486
CDS
17149
MCL
18086
SUB
1873
LOC
24878



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
-59
RPC
-57
CDS
-28
MCL
-144
SUB
132
LOC



FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54435
RPC
54537
CDS
55242
MCL
54435
SUB
53154
LOC
42868

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
15 AUG 83 (DAY 23.105) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X. COMPONENT

160 NANOTESLAS, MAJOR DIVISION

NEW
18185
RPC
18498
CDS
17167
MCL
18105
SUB
18741
LOC
24882

FLUXGATE Y. COMPONENT

160 NANOTESLAS, MAJOR DIVISION

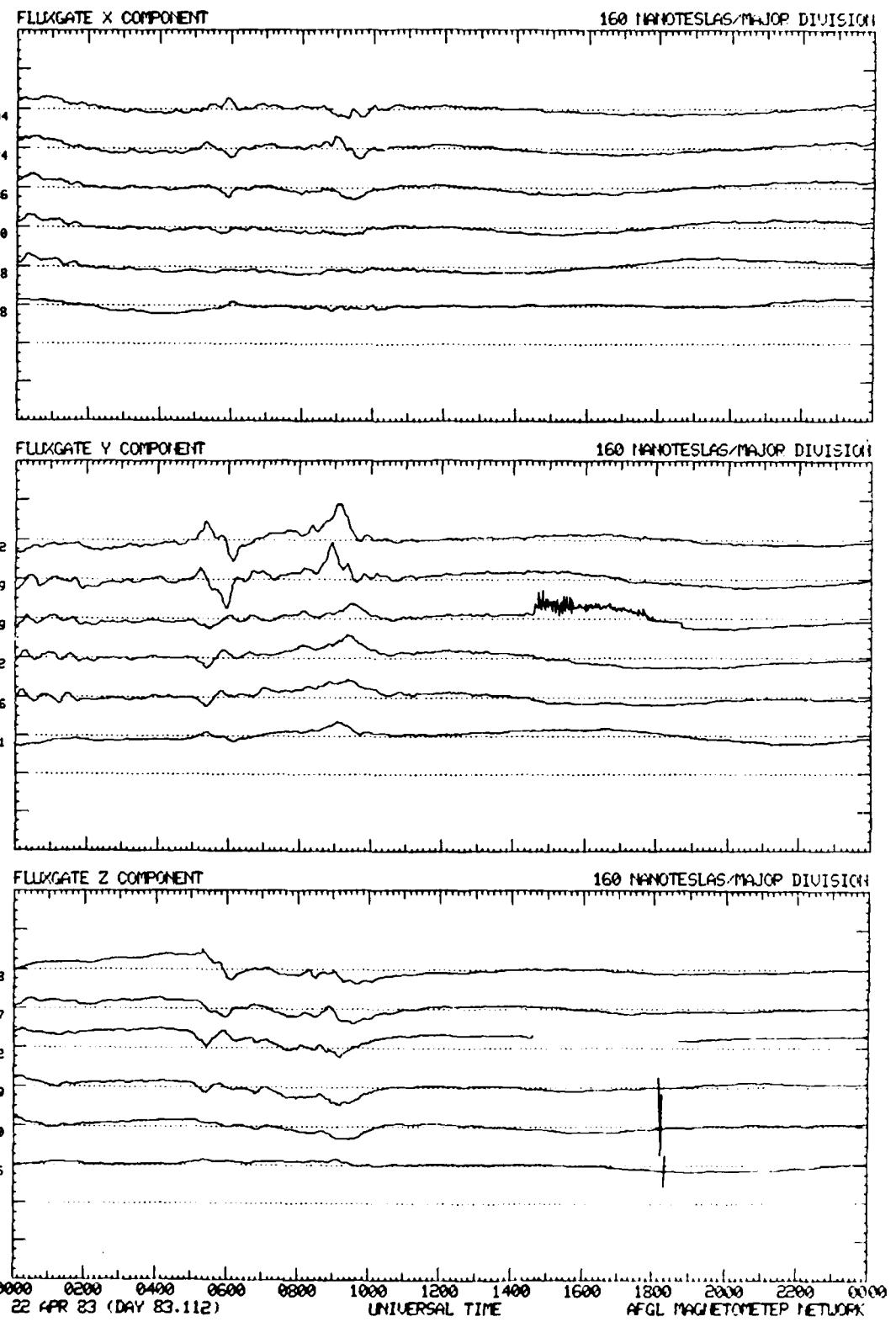
NEW
-51
RPC
-55
CDS
-32
MCL
-150
SUB
131
LOC
-2

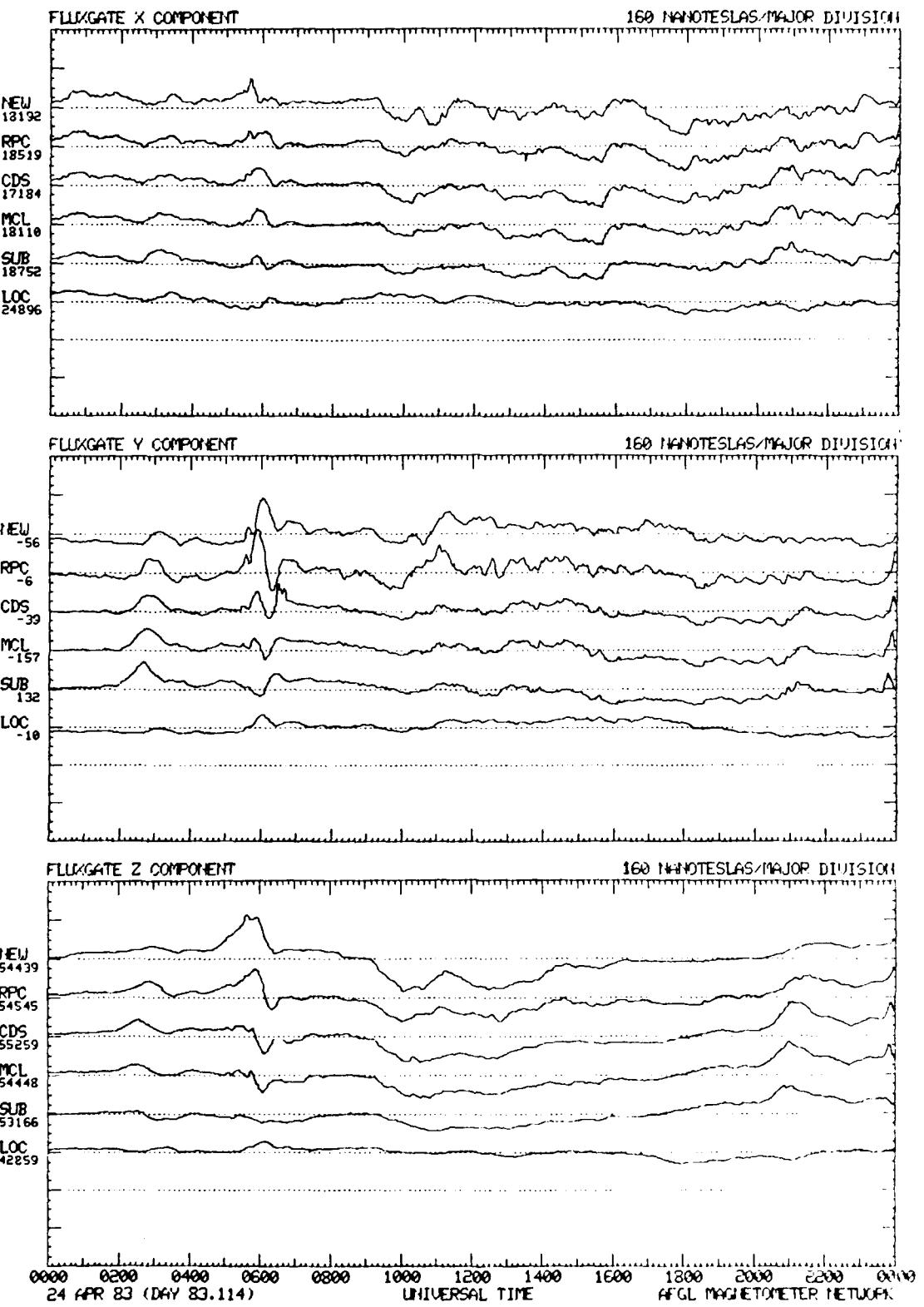
FLUXGATE Z. COMPONENT

160 NANOTESLAS, MAJOR DIVISION

NEW
54447
RPC
54539
CDS
55246
MCL
54437
SUB
53160
LOC
42858

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
16 APR 23 (DAY 83,196) UNIVERSAL TIME AFOL MAGNETOMETER NETVAK





FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18194
RPC
18507
CDS
17184
MCL
18109

LOC
24284

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
-48
RPC
-61
CDS
-33
MCL
-156
SUB
452
LOC
6

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54437
RPC
54537
CDS
55257
MCL
54443

LOC
42262

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
30 APR 83 (DAY 83.120) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW 18220
RPC 18540
CDS 17211
MCL 18135
SUB 18740
LOC 24911

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

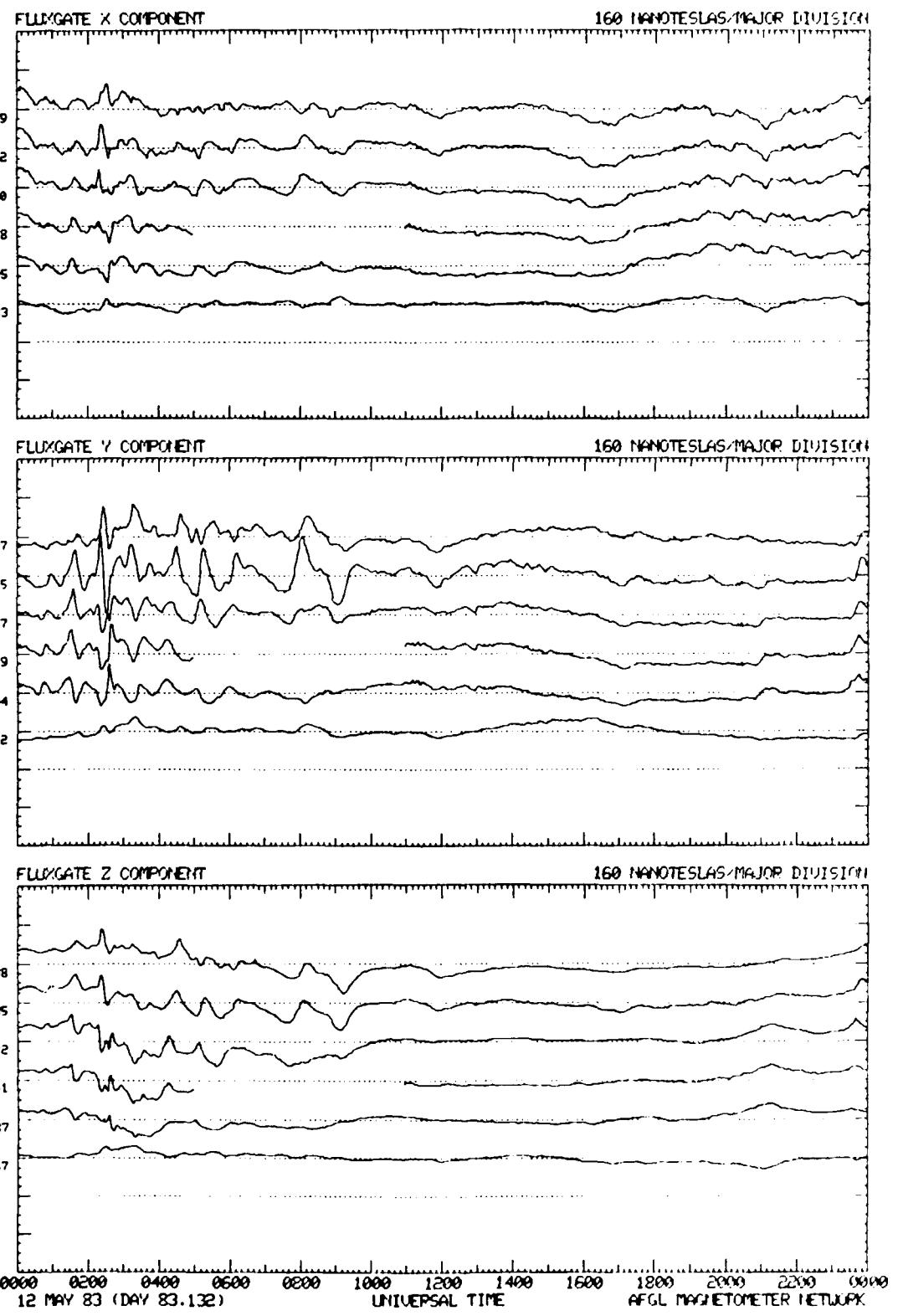
NEW -49
RPC -58
CDS -27
MCL -125
SUB 46
LOC 1

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW 54415
RPC 54525
CDS 55223
MCL 54419
SUB 53190
LOC 42851

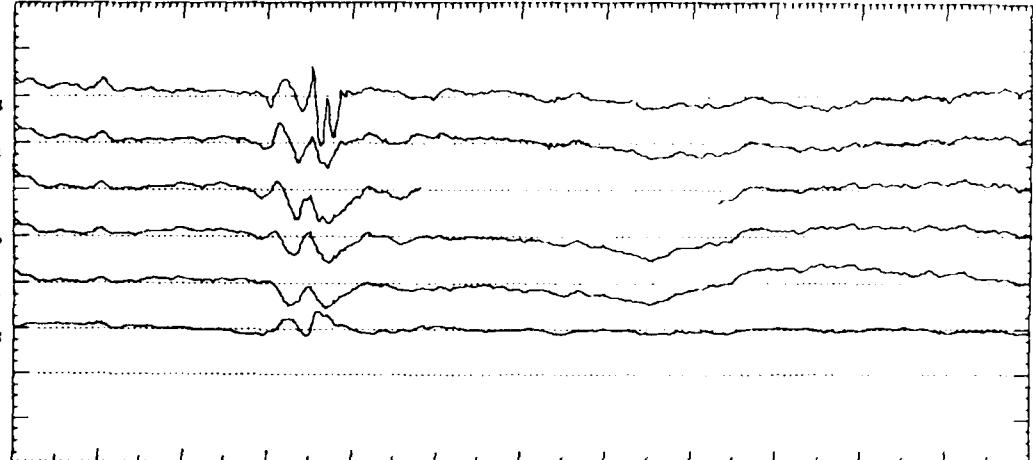
0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
11 MAY 23 (DAY 83.131) UNIVERSAL TIME AFGL MAGNETOMETER NETJOPI



FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

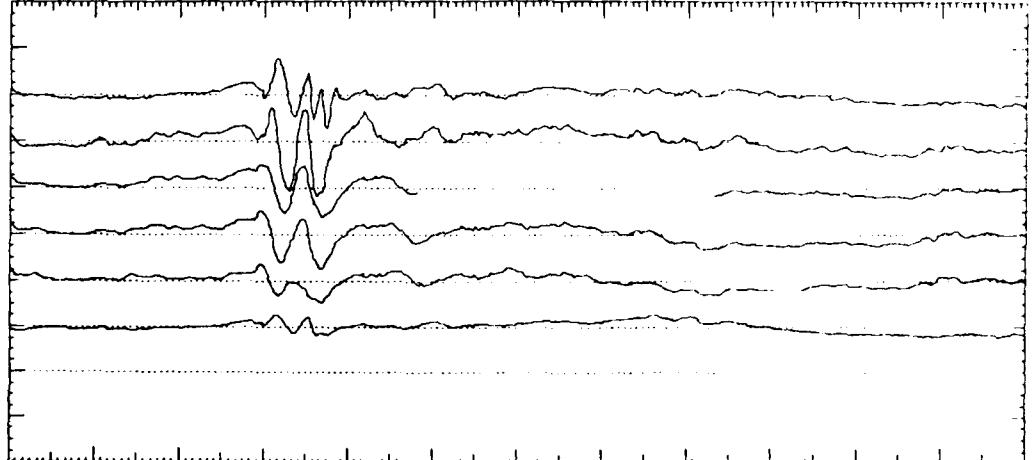
NEU 18188
RPC 18511
CDS 17201
MCL 18117
SUB 18721
LOC 24888



FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

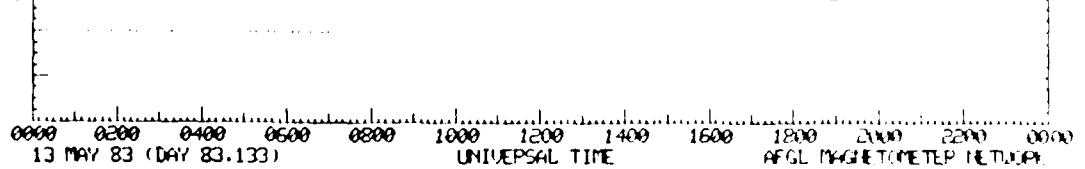
NEU -51
RPC -57
CDS -40
MCL -132
SUB 42
LOC -5



FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU S4428
RPC S4528
CDS S5235
MCL S4424
SUB S3180
LOC 42858



13 MAY 83 (DAY 83.133)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
18203
RPC
18518
CDS
17193
MCL
18116
SUB
18723
LOC
24888

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NETJ
-60
RPC
-58
CDS
-26
MCL
-131
SUB
44
LOC
-10

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEU
54444
RPC
54545
CDS
55128
MCL
54434
SUB
53188
LOC
42865

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400 0000
14 MAY 83 (DAY 83.134) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
12207
PPC
12534
CDS
17221
MCL
18147
SUB
18748
LOC
24914

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
-66
PPC
-69
CDS
-44
MCL
-145
SUB
41
LOC
-15

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54428
PPC
54541
CDS
55259
MCL
54451
SUB
53314
LOC
42356

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
17 MAY 23 (DAY 23.137)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWk

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
13219
RPC
18541
CDS
17215
MCL
18134
SUB
18760
LOC
24900
TPA
25381

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
-50
RPC
-52
CDS
-31
MCL
-133
SUB
47
LOC
-6
TPA
-23

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54446
RPC
54544
CDS
55240
MCL
54428
SUB
53251
LOC
42867
TPA
42474

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
22 MAY 83 (DAY 83.142) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
13207
RPC
18530
CDS
17202
MCL
18123
SUB
18736
LOC
24888
TPA
25373

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

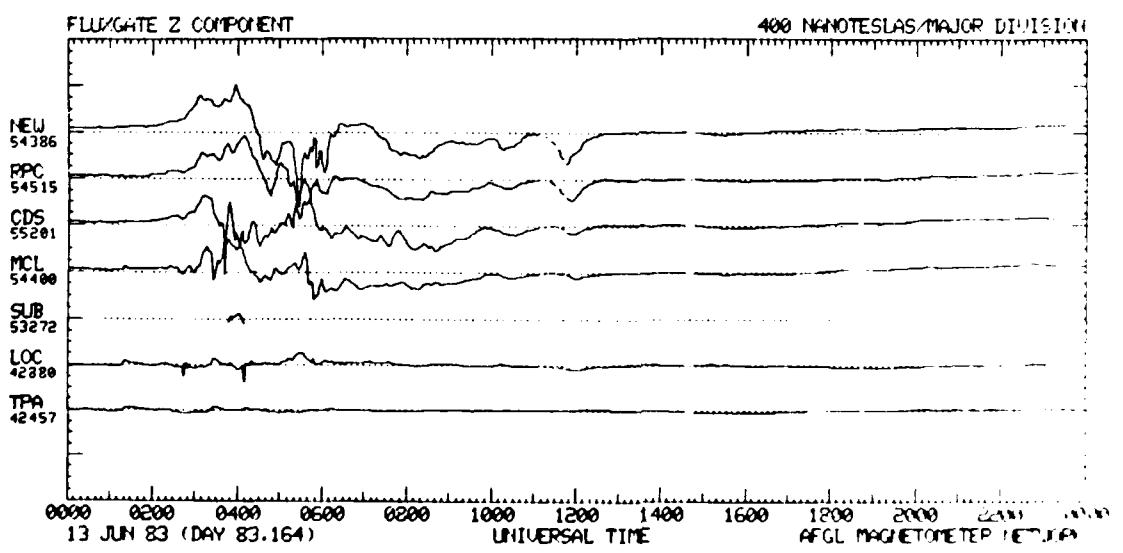
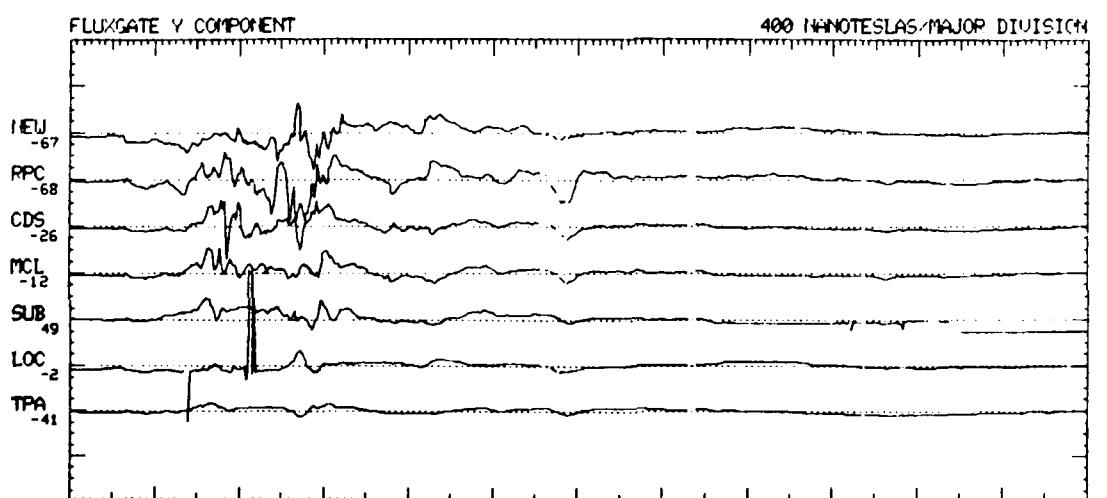
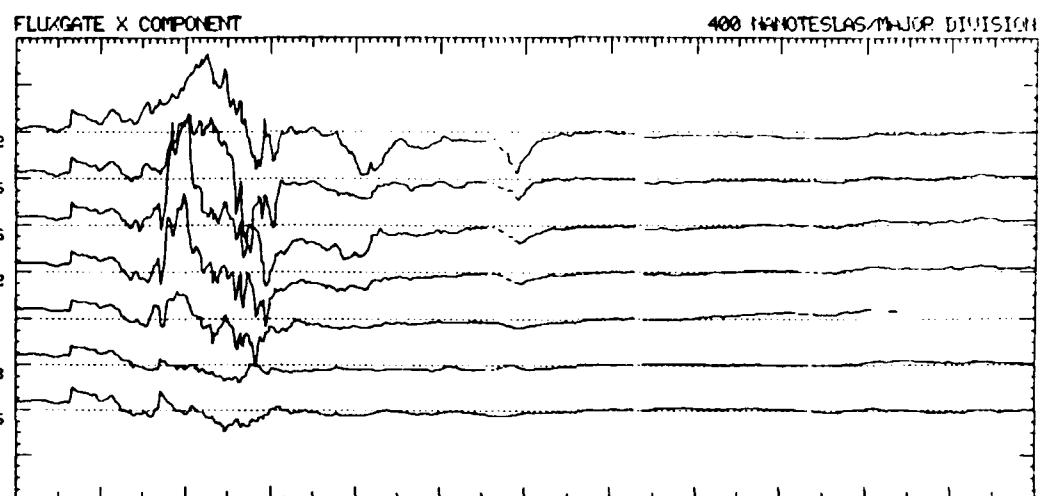
NEW
-55
RPC
-62
CDS
-37
MCL
160
SUB
36
LOC
-8
TPA
-55

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54464
PPC
54563
CDS
55262
MCL
5445
SUB
53263
LOC
42870
TPA
42444

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300
24 MAY 83 (DAY 23.144) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK



0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200
13 JUN 83 (DAY 83.164) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK

FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
13228
RPC
12567
CDS
17226
MCL
18139
SUB
1877
LOC
24301
TPA
25401

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

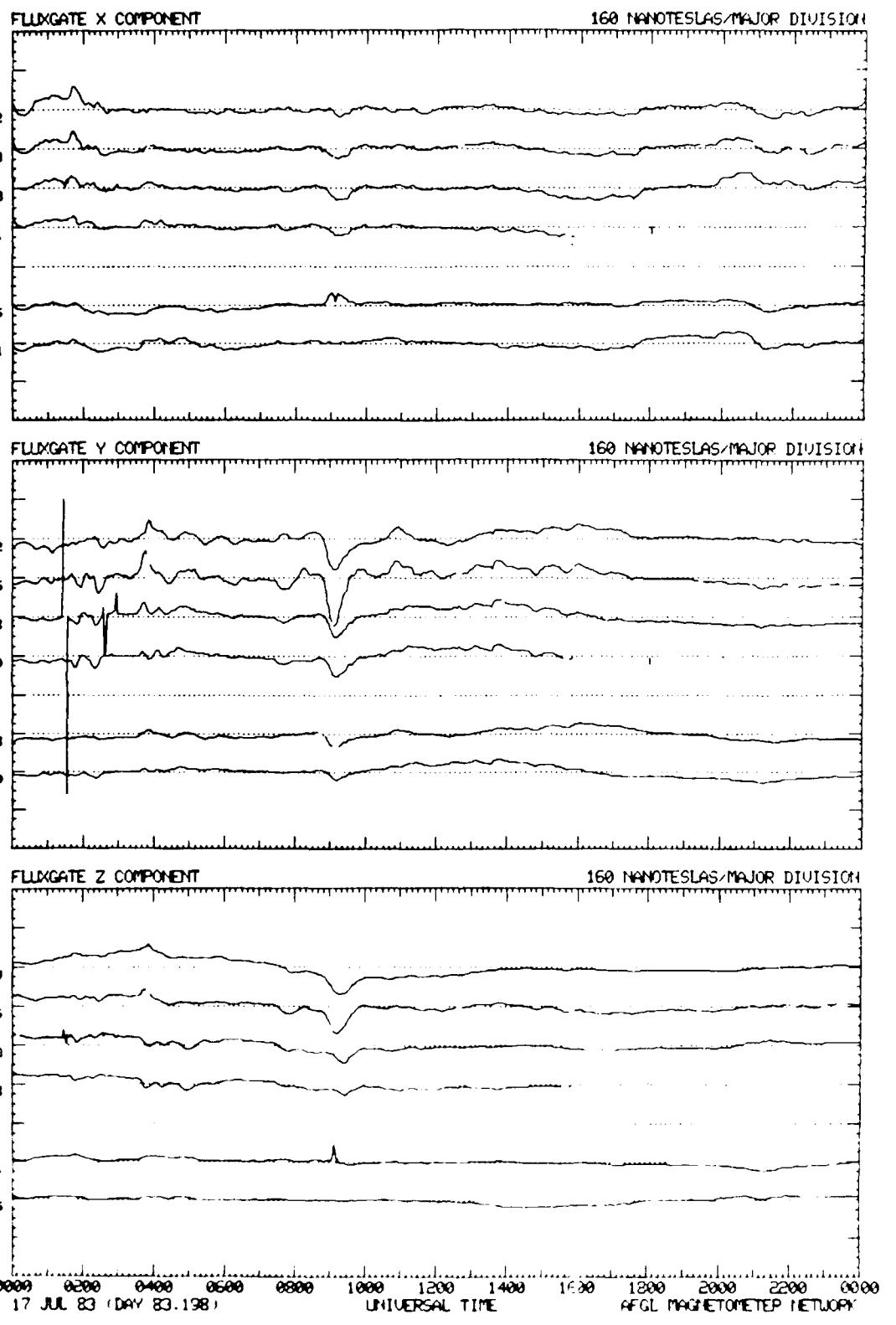
NEW
-56
RPC
-67
CDS
-34
MCL
-138
SUB
47
LOC
-2
TPA
-50

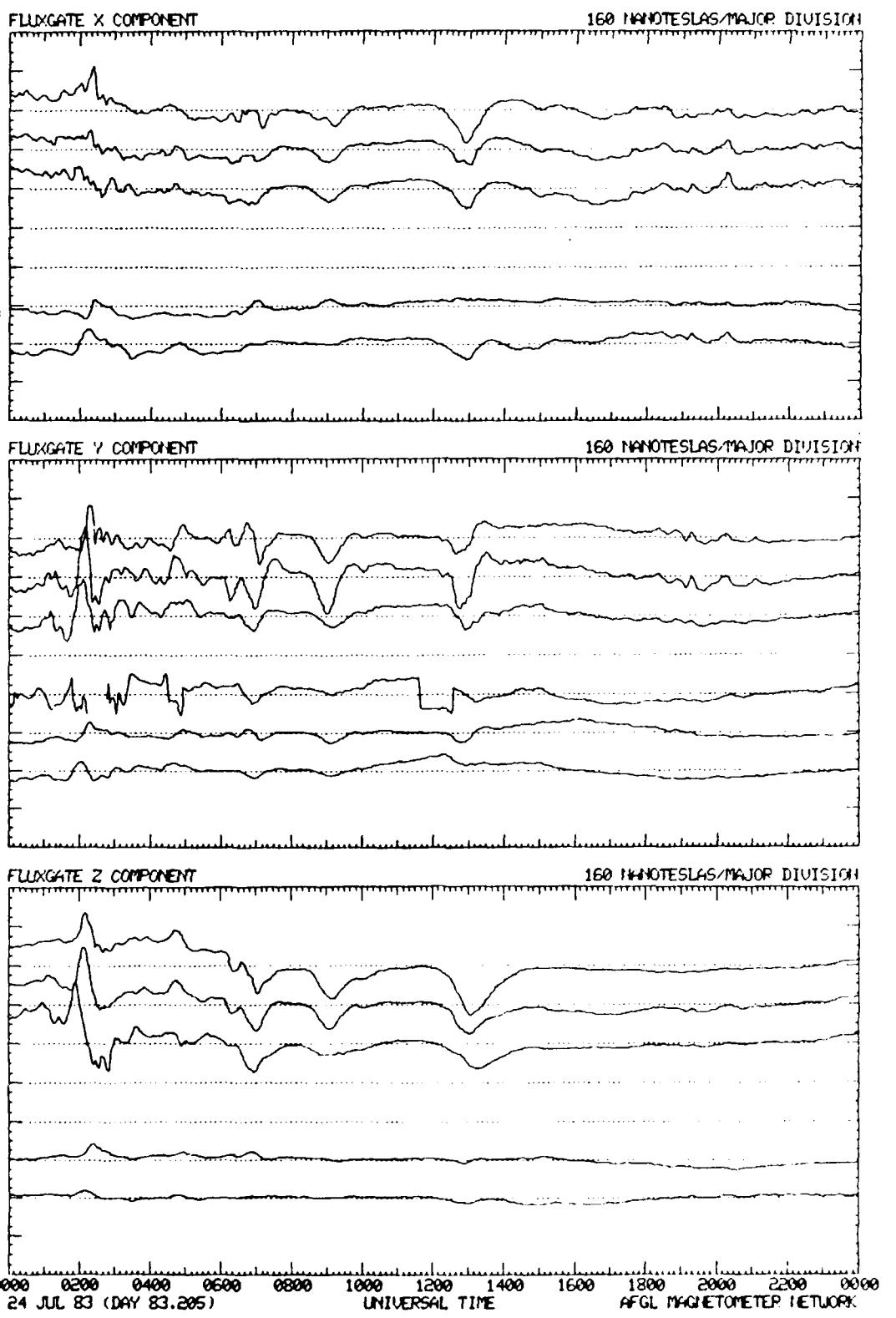
FLUXGATE Z COMPONENT

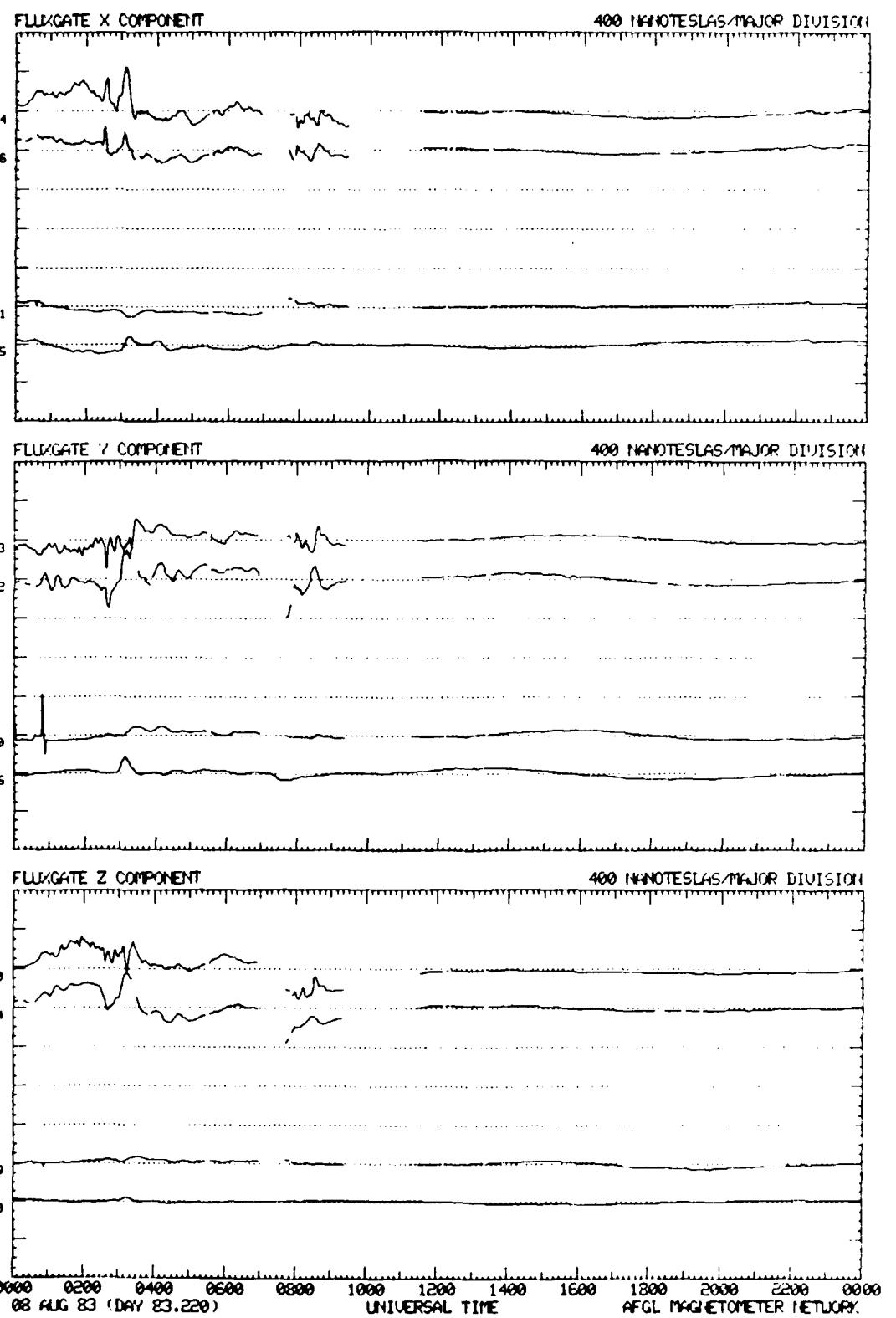
160 NANOTESLAS/MAJOR DIVISION

NEW
54420
RPC
54526
CDS
55225
MCL
54336
SUB
53157
LOC
42264
TPA
42454

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2300
12 JUN 83 (DAY 83.169) UNIVERSAL TIME AFGL MAGNETOMETER NET 743







FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18226

RPC
18595

SUB
18778

LOC
24898

TPA
25382

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
-52

RPC
-26

SUB
-103

LOC
1

TPA
-42

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54403

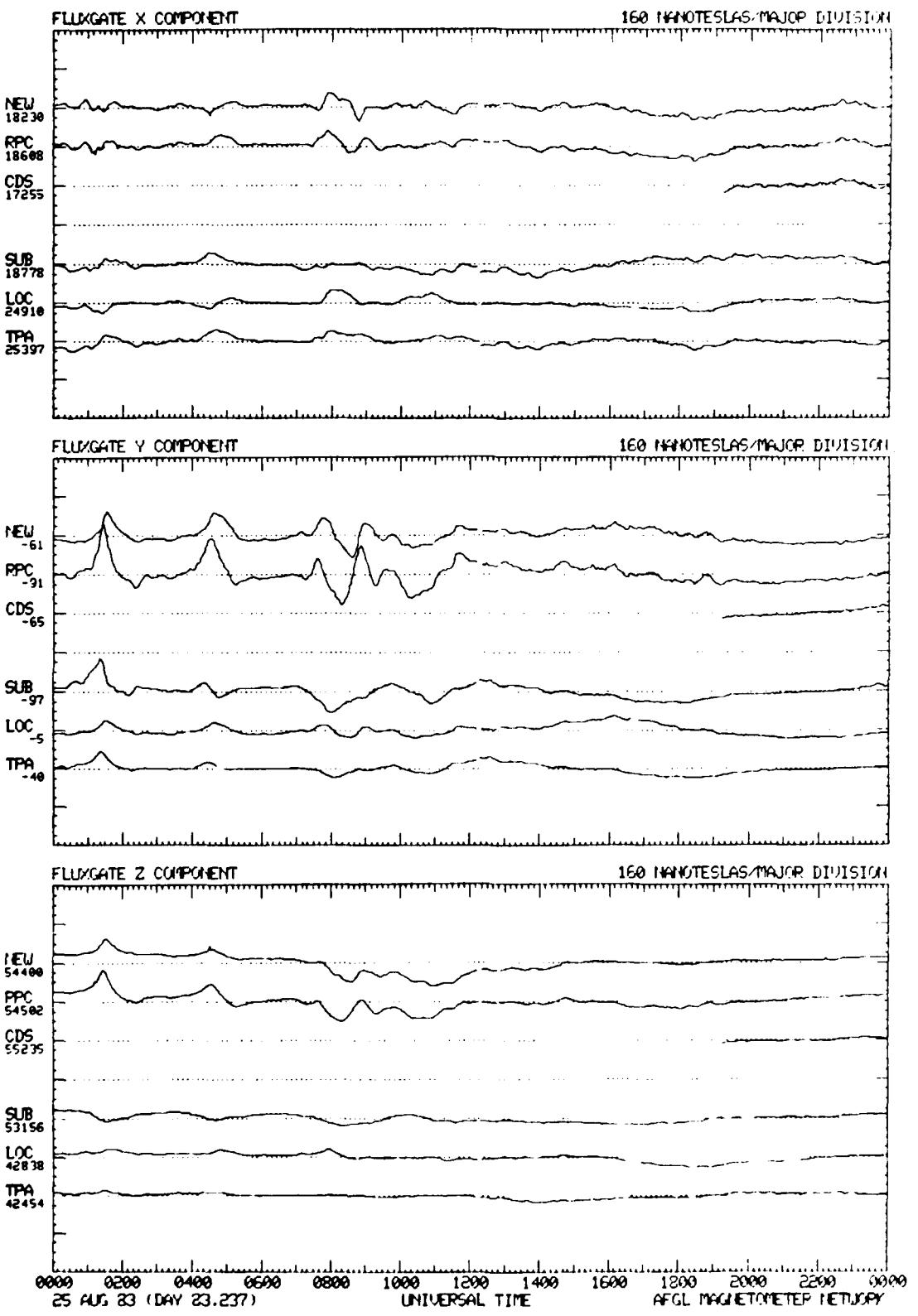
RPC
54498

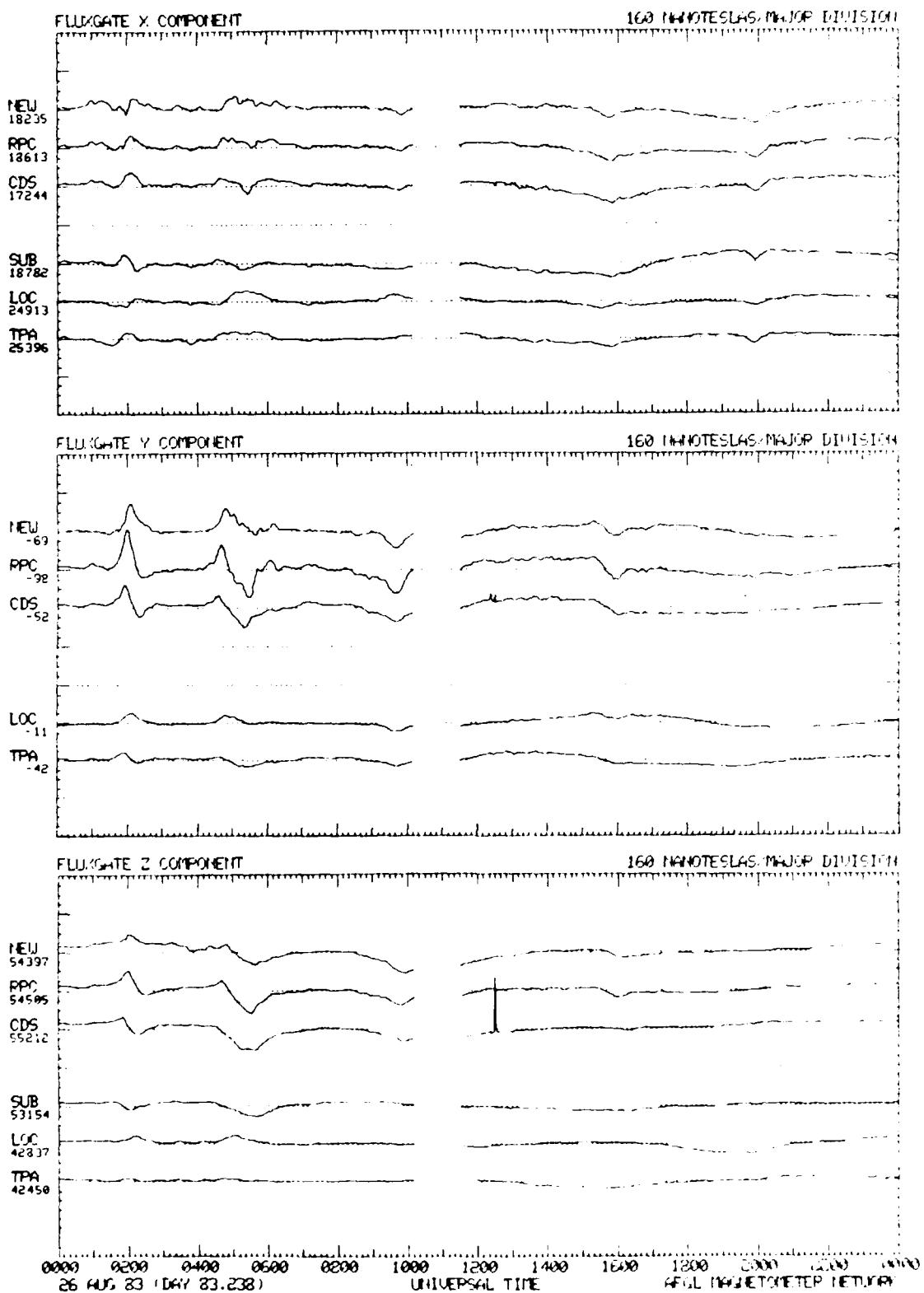
SUB
53153

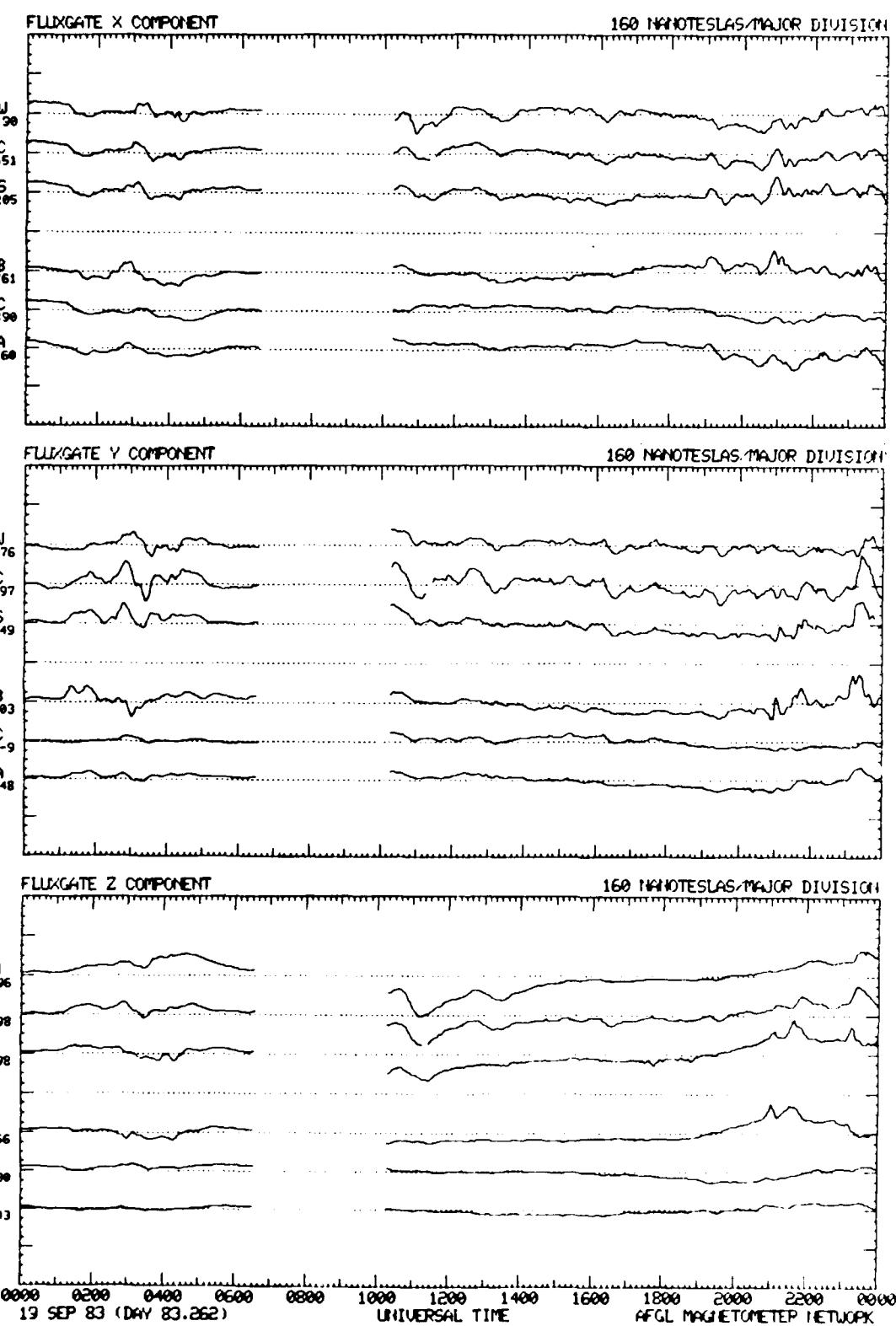
LOC
42837

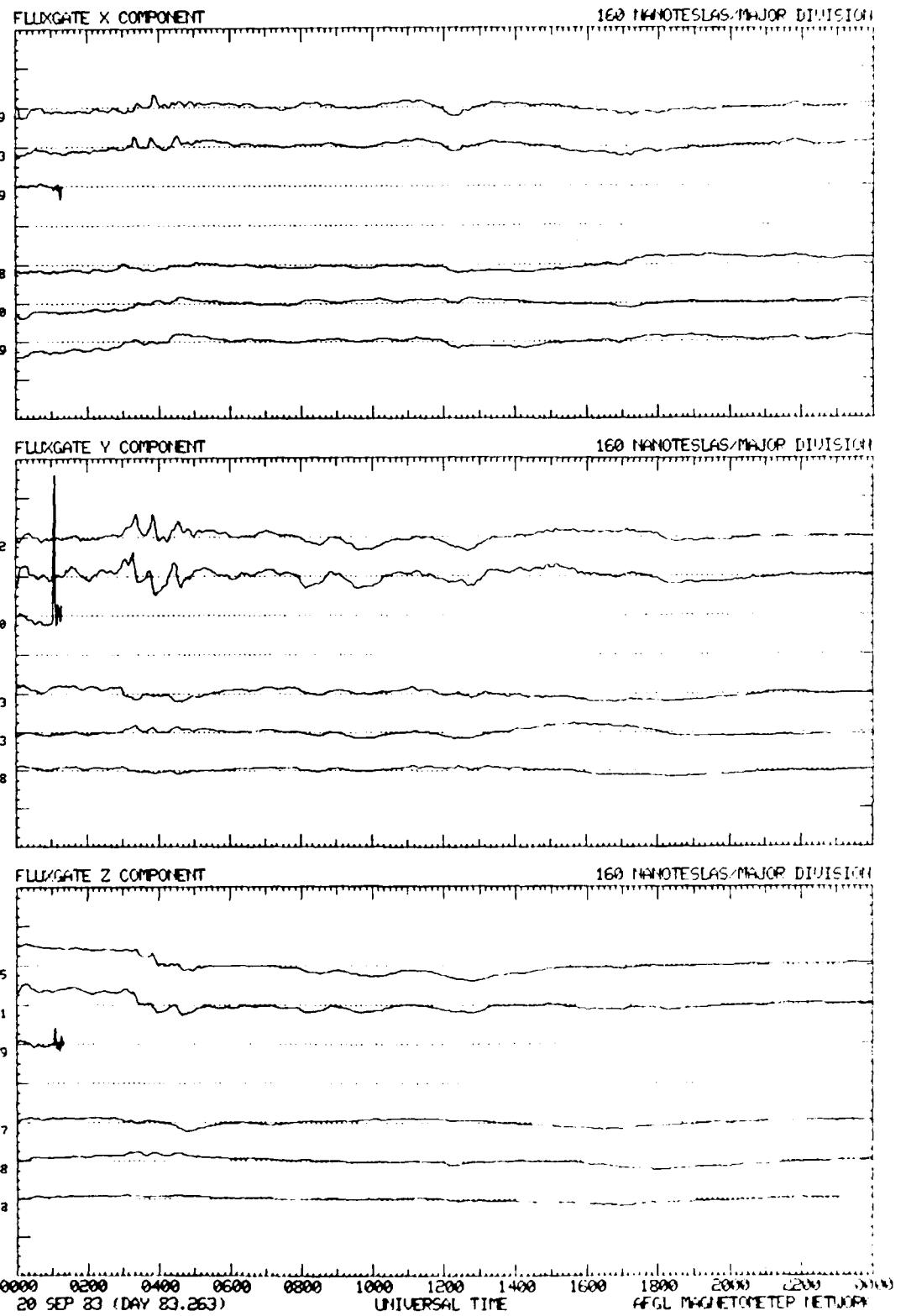
TPA
42451

0000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 2400
23 AUG 83 (DAY 83.235) UNIVERAL TIME AFGL MAGNETOMETER NET LOG









FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
18162
RPC
18516SUB
18716
LOC
24868
TPA
25358

FLUXGATE Y COMPONENT

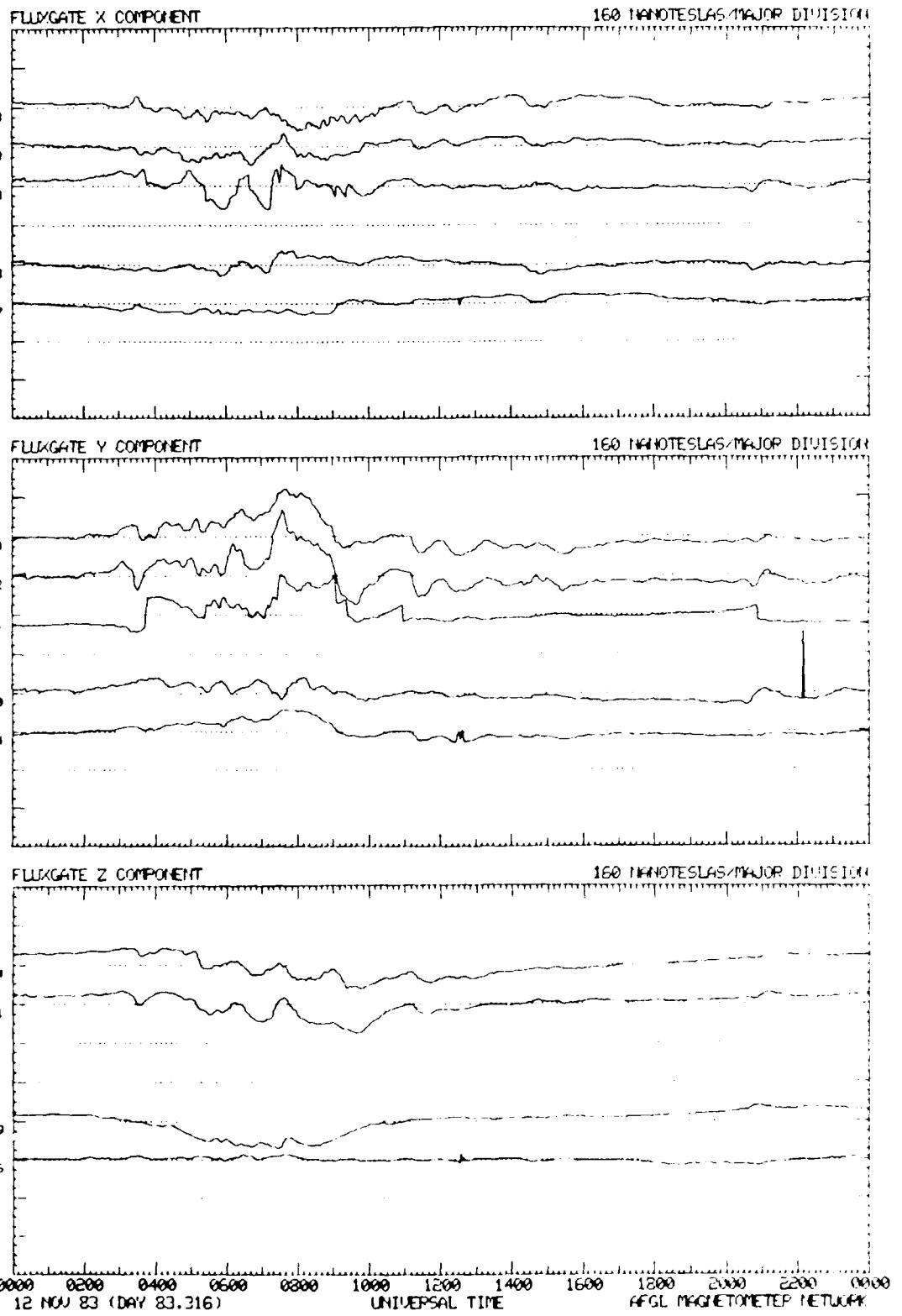
160 NANOTESLAS/MAJOR DIVISION

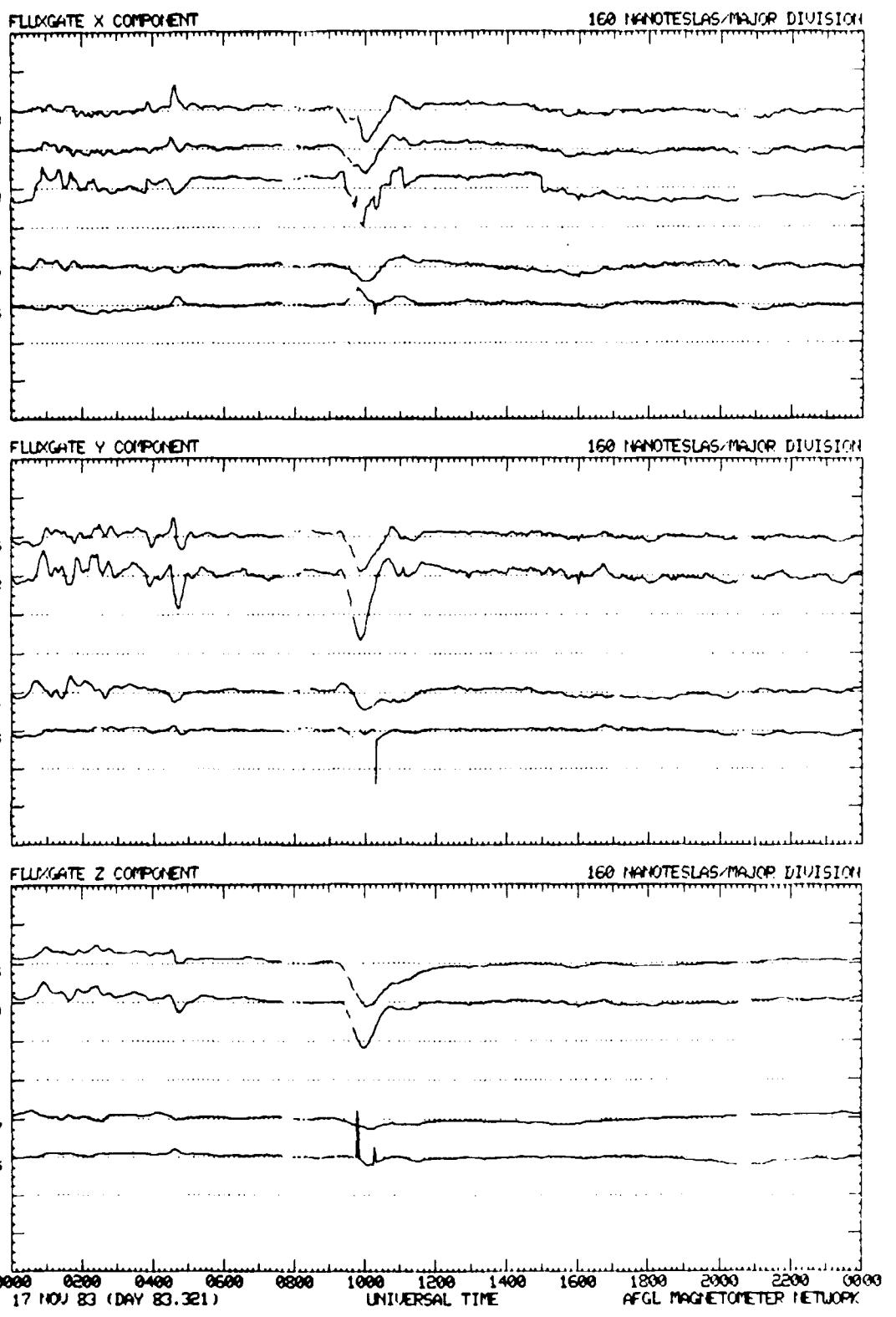
NEW
-69
RPC
-78SUB
-99
LOC
-8
TPA
-46

FLUXGATE Z COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
54343
RPC
54473SUB
53144
LOC
42833
TPA
424500000 0200 0400 0600 0800 1000 1200 1400 1600 1800 2000 2200 0000
18 OCT 23 (DAY 83.291) UNIVERSAL TIME AFGL MAGNETOMETER NETWORK.





FLUXGATE X COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
13198
RPC
18533
CDS
17201SUB
18709
LOC
24885

FLUXGATE Y COMPONENT

160 NANOTESLAS/MAJOR DIVISION

NEW
-36
RPC
-30SUB
-104
LOC
-16

FLUXGATE Z COMPONENT

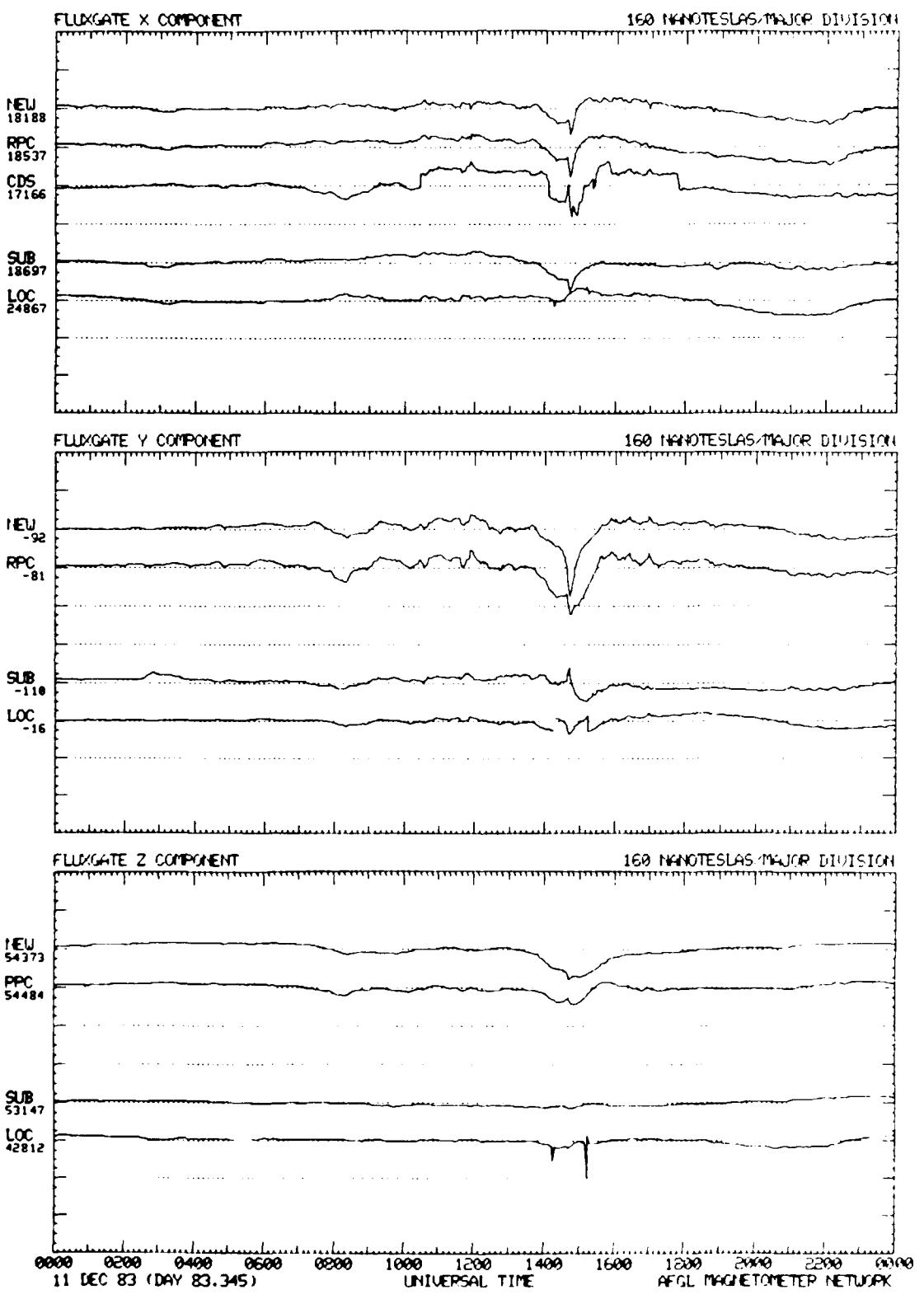
160 NANOTESLAS. MAJOR DIVISION

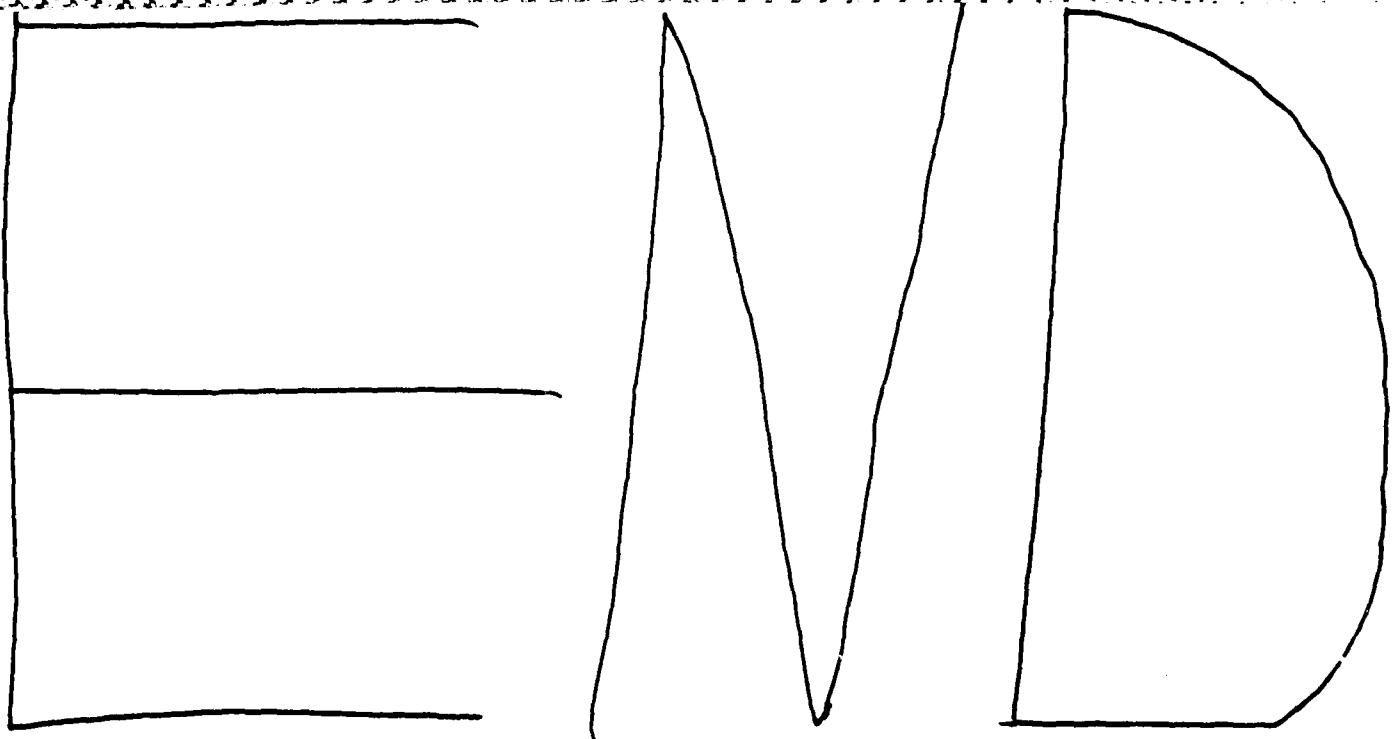
NEW
54390
RPC
54499SUB
53156
LOC
42823

18 NOV 83 (DAY 83.322)

UNIVERSAL TIME

AFGL MAGNETOMETER NETWY.





2 - 86

